

ob Hilsdon explains how he used ITIL to achieve a breakthrough in customer service. PAGE BO

M OF THE AGES art Perkins spots 12 things you know about good project management - but choose to ignore many ma

UIER MARCH 12. 2007 - VOI. 41 - NO. 11 - 55/COP

Corporate IT Sticks With Office Formats

Private sector shows little interest in adopting OpenDocument alternative

ST CAROL SLIWA

IT managers suggest that Mi-The governments of Massacrosoft's stranglehold on the chusetts, Belgium and Hong Kone are same to try the Open Document Format for Office Applications, But in corpora

tions from Hopokulu to Los Angeles to Cincinnati, there's scant usage and little planning for it. The XML-based OpenDocument format

is one of the technologies that could free IT managers to realistically consider alternatives to Microsoft Corp's dominant Office suite

office applications market isn't in any imminent danger. At last week's Premier 100 IT Leaders Conference in Palm Desert, Calif., a whoppine 88% of 210 respondents to an electronic

poll indicated they either hadn't considered an alternative to Office or had done so only casually.

Office's proprietary binary formats have often forced companies to stick with the Office Format, page 40



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Texas House Votes to Exempt Clerks From Privacy Laws

Bill would allow public records with Social Security numbers to stay on Web

The Texas House of Representatives last week passed an cancragency bill that exempts courthouse clerks in Texas from state and federal laws requiring that Social Security

numbers be kept confidential. The bill has moved on to the Texas Senate for debate and a vote. If passed by a two-thirds majority, it would go into effect immediately. The legislation would negate a Feb. 23 ruling by Texas Attorney General Greg Abbott that disclosing Social Security numbers in public documents violates state and federal pri-

vacy laws. Abbott's opinion made it a criminal offense - punishable by jail time and fines - for the clerks to disclose Social Security numbers when making court records available to the public. The rule would force courthouse clerks to check for

Texas House, page 14

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chief security officer and a coinventor of publickey cryptography talks about the state of computer

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Keep Your Searches Private METWORKING: Worried that Google and orb-

er search sites know too much about you - and that the feds can subpoens that data? Fear not - bere are seven things you can do to keep your search history to yourself. O www.commissworld.com/setworking

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Corporate Data Grows Fiftyfold in Three Years

ME: Worldwide, the amount of cornorate data has reached lol exabites (that's 161 billion gigabytes), and one dire prediction holds that it will hit a zettabyte by 2010. outpacing storage capacity.

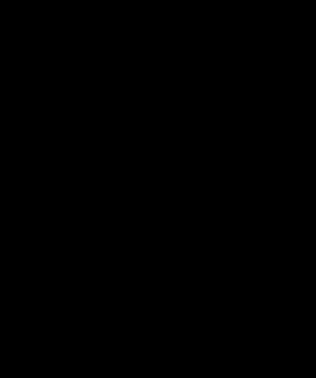
O www.computerworld.com/s 20 Must-Have Firefox Extensions CONT. These plue-ins can streamline development tasks and give you souped-up functionality and a better look and feel. And some are just plain cool.

Wal-Mart: What Happened?

BITT: Could Wal-Mart's envendred incident turn into this year's HP scandal A former IT security staffer for the retailer says it may not be what you think

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Eight Reasons Tablet PCs Have Missed the Mainstream MELESS: Tablet PCs like Fnjitsu's

LifeBook T4000 haven't caught fire among everyday consumers remaining a niche product for specific professions. Cost and technology problems are among

the reserve



Ohio University Names New CIO

Ohio University has hired a pr ent CIO to lead the school's. IT office, which last year was hit with a series of data security breaches that resulted in the bring of two IT workers and the ion of CEO William Same J. Brice Bible, interim CIO and ent vice president for IT at the University of Tenn

ille, will take over the Oil next on April 16. He replaces interim CIO Shewn Ostermano. name Fined for

Patent Infringemer A federal jury ordered You gs Corp. to pay \$58 million in damages to Vertzon Con ications Inc. after feeding that it had infringed on three rizon patents. After the verdict tion to stop Vonage from ing the technology altoget n said it expects the verfict to be reversed on appeal rizon sund Vonage last June sking \$197 million in damag

No Patches From

crosoft This Wes resoft Corp. said that it will dde this week's Putch Touris ly advance notif in its month resoft Security Bulk will be released on March 13. 107." This is the first time in 18 oths that Microsoft has not ised at least one security and in a scheduled patch rollout on the second Tuesday of a mont

Balsillie Resions as M's Chairman

Jim Baisillie has resigned as nan of Research In Mo Ltd. acception blame for his role is a stock-option scam that will cost the company \$250 million is restated earnings. The stock tion woes are forcing RIM to for fiscal years 2004, 2005 and 2006, and for the first quarter of 2007. Betaille will remain as RIM's co-CEO and serve on the pany's board.

ATDEMUNE: HPC Is Providing Boost To Old-Line Companies

Manufacturers say high-performance computing reduces design, test times

KEY PIECE of a legislative push to boost U.S. competitiveness could lead to a significant increase in spending on high-performance computing The America Competes

Act introduced into Congress last week by Sen. John Ensign (R-Nev.), calls for doubling research budgets at two agencies responsible for studying high-performance computing OHPC's the U.S. Department of Energy and the National Science Foundation

The high-end technology is already providing significant benefits at two veteran manufacturing companies, according to executives at each. Mark Crawford, vice presi-

dent of engineering at Simpson Strong-Tie Co., knows firsthand the benefits of HPC to old-line manufacturine comnanies Simoson Strong-Tie makes metal connectors used in construction and is in many ways the polar opposite of the Web 2.0 companies springing up near its Pleasanton, Calif.-

based headquarters. But this manufacturer may he one of the more high-tech companies around, because it uses a Linux Network Inc. bigh-performance computer for both design and testing in its product development

Virtual Environment For most of its 50 years, Simpson Strong-Tie built its metal connectors by making and then testing physical proto-

efforts

types. Last year, it began using HPC to test product variations in a virtual environment. Crawford said the system helped cut product develop ment time - a product that may have taken six months to

develop in the past now takes just three Crawford said that the HPC system is now "one of the key aspects to maintaining our competitive advantage," Simpson Strong-Tie can now more unickly investigate complex designs and see how its con-

nectors fare in various conditions, such as during high winds he noted The company had used desktops for some of the engineering work involved in designing connectors, but computations could take a week and weren't always completed.

That prompted the company to turn to the Linux Networx system, which has 14 Opteron

how connectors will perform

Inc. engineering software. Simpson Strong-Tie's connectors are made of lightgauge steel and are used to join wood as well as wood to concrete and masonry. Com-

plex engineering is preded because "the strength of these joints is what essentially holds a building together," especially during a burricane or earthquake, said Crawford. Creating realistic simulations is compute- and time-

intensive but HPC systems can distribute lobs to individual nodes, so complex jobs can now be run overnight said Frank Ding, research and design engineer at Simpson Strong-Tie.

Today, the company uses the HPC technology to determine

on various building substructures Dine said IDC data indicates that

many large companies are turning to HPC. According to the Framingham, Mass-based research firm workly to Little revenues are growing by about 9% annually, making HPC one of the fastest-growing commuter technologies. The market is projected to reach \$14.3 billion by 2010 IDC sold

Ping Inc. also turned to HPC technology to hasten product development and testing, said Eric Morales, a staff engineer at the Phoenix-based maker of notificiate Pine's Cease VIII high-performance system installed in 2005 has substantially reduced the time needed to develop policions be said

"HPC is working great for us. We can get our answers faster, and we can increase the resolution of the simulations to get more accurate results at the same time," Morales said. The computer and software that we nurchosed has already paid for itself."

NSF Official: U.S. Must Stee Up Long-Term Research

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will be responsible for shap

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studying U.S. com ent in the worlfisht for unce - a subject that o

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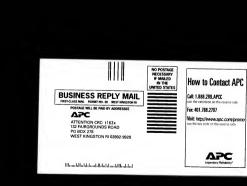
can't say it loud enough," Wing The MSF bands 87% of all fee ally supported computer acience O million for the group that Wing

As a result, the NSF or

being done now," he said, and as a

- PATRICK THIBODEAU

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Innovation Goes Back To Top of IT's Agenda

Execs say companies should look for an edge with technology not just use it to try to cut costs

IV JAIKUMAR VIJAYA IMD CRAIG STEDMAN

HEN CTO H. James Dallas See NASCAD race about 10 years ann, he learned some first lessons - not about driving stock cars

around an oval at high speeds. but about footering innovation within an IT department. At that race in Richmond, Va., Dollas listened to radio

between the drivers and their nit course as they plotted race strategies. What he found Dallas said at Computerworld's Premier 100 IT Leaders Conference here last week, was that NASCAR teams "are constantly striving to be innovative. They're always looking

for on other IT departments need to adopt the same kind of mentality said Dallas who is now CIO se Mademaio Inc. a maker of medical devices in Minneapolis. And it has to start from the top: "CIOs have to get back to leading," he said, noting that top IT executives need to be able to find creative and nassionate people within their organizations "and give them air



cover so they can go out and he innovative." Neither part of that constion is easy, according to Dullas, IT managers have to indee the person who proposes an idea in addition to the idea itself. he said. And then they have to find the money required to

fund projects. "We're out there competing organizations," Dalles said "And if we don't get what we Shame on manage ment, it's Shame

In addition, comnanies that want to have innovative IT departments have to be prepared to take risks with technology and accept some failures, said Brace Goodman, chief service and information officer at Humana Inc., a Louisville.

Ky-based health insurer "A culture supportive of trial and error is necessary, because a lot of things are not going to work." Goodman said. Humana has set un one group within IT that is focused on strategic innovation inside the company and another that is exploring ways to take advantage of vendor innovations. It has also established a project management office to ensure that ideas senerated

by the two groups are acted on promptly. And the insurer has created a formal process for trying out new ideas "very. very quickly" in small pilet projects, Goodman said. He recommended that IT executives set part of their budgets aside for so-called

greenfield projects. And instead of measuring the



vishility of such projects using traditional metrics. Goodman noted companies should indee them using other vardsticks. such as how they affect customers

Open to Suggestions Another key to fostering internal innovation is a willingness to accommodate ideas from contride the IT organization. said Steve Ellis, executive vice

president of the wholesale ser-

For instance about 25% of the enhancements made to Wells Farro's Commercial Electronic Office (CEO) business banking portal since it have been customer-driven. build anything on the CEO

was launched seven years ago Filis said. Wells Faren doesn't site, he added, without first cetting feedback from customers. "The voice of the customchange internally. IT units first need to establish credibil. ity with business users, said Tom Lindblom, chief technology officer at CKE Restaurants Inc. in Carpinteria, Calif. "Users have to feel like they're not wasting their time if they're coming to you with business

To be effective at leading

issues "he said Filippo Passerini, global ser-



Offbeat IT Tactics

IT leaders share some secrets of their management styles

waars a three-ste badge as part of his job as dequite commissioner and CIO for the New

York City Police Department, "It's like the army," he said. "But when I have meetings with my IT staff, I want everybody participating. So I told them. 'Let's leave rank at the door." There's a downside, though: Onallo said he's getting into a lot of arguments now. "Maybe !

went too far," he joked.

named the mident and CTO at Nepster

Inc., said he often gets contacted "want me to meet with 15 people." He responds by asking for a rate sheet and giving them a written rundown of his technology needs. "We don't have

a lot of time for the traditional sales cycle," Pence said Just Say No to New Ideas - at First

A boss at a previous employer left IT executive H. James Dallas siting in a wedfing room for not one, not two, not three, but four scheduled

meetings. When Dallos persisted and requested a lifth meeting, the boss accepted the request within two min utes. Now, as CIO at Meditonic Inc., Dallas routinely tells (T workers "no" when they first propose ideas to him "I want to see who has nession - who

won't give up," he said. Let's Do It My Way Barry Shules senior vice president of IT



sext his natural style in worki end users "is more velvet two-by-four then it is carrot." Shuler has changed that approach over the years in order to get IT projects approved. "But." he said, "I still sometimes leel, if you could just see how you could chance things my way, we could get things

vices officer and CIO at The Procter & Gamble Co. said the Cincinnatti-based con-IT unit into a characteristics organization several years ago as part of an effort to "try to be distinctive, or unique, in what we can create" for end users.

"Instead of just running faster and faster, we decided we should change how we run," Passerini said. PërG now sets IT project deliverables in increments of 30, 60 or 90 days and gives tech workers. "commercialization" training he explained The company eyeo changed the name of its IT operation to Information & Decision Solutions, because the "IT" label "wasn't descriptive any longer of what we wanted it to be," he said.

P&rG's CEO keeps tabs on IT cost issues. Passerini noted. but he's equally interested in discovering what is possible through the use of technology." In the end using IT simply to cut costs - without focusing on innovation - ign't enough to achieve true busi-

ness success. Dallas said. "If it's all about cost, you won't get to heaven," he said You won't so to hell, but this is about getting to heaven."

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security shift

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embedded etc each of the company's engineering and prod uct management groups. "We felt strongly that security can become an afterthought if it's one ated as a separate organization Yahoo CIO Lars Rabbe said. "We thought it was important to make it part of the process, so that security

ornes part of the job. The security team's adopted name pretty much ensures that if won't be an elterthought in a move perhaps more litting for a punk rock band. the security staffers call therewives. the Paranoids.

- ERIC LAI AND CRAIG STEDMAN

Gutierrez Feels Bittersweet Pride' After Political Battles



DE STOFFERT CALIF As CIO of Massachusetts from February to November of last wear Levis flutioners had to endure most of the beset of Microsoft Corp.'s political

wrath over a state policy calling for avencies to adopt the Onen Document Format for Office Applications, or ODF - a rival to the software vendor's new Office Open XML file format. Gutierrez also faced IT funding issues in the state lexislature, ultimately leading

him to resign in protest. Now a consultant at Freter Grown Inc. in Cambridge, Mass., Gutjerrez took part in a panel discussion on defining moments in IT leadership at Computerworld's Premier 100 IT Leaders Conference last week. During a separate interview, he reflected on his nine months in the Massachusetts hot seat. Excernts follow:

What did you find most bother some about what Microsoft did in its lobbying efforts against the state's OOF policy? This was the first time I had ever seen a vendor involved in efforts to recharter the central IT agency, and I find that troubling

Did your experience sour you on resett? I think to be entirely far. that large compositions have many our sonaities, of at the same time, and I do throis that there are individuals of obseacter that I worked through a year with There is this whole theater of me keeping Brian Burke, (Microsoft's Northeast | government allairs specialist, out of my office. That was theater for saving that this time of activity must stres. What I'm concerned about with Microsoft is sest that there are notions. of the organization, and possibly very andorsed portions of the organization. that have jost a sense of most existing with governments and with govern-

ment oustomers. If you could say anything to Steve Ballmar or SIII Gates right new.

what would you tall them? Ray Ozze, by agreeing to most early in my femare, let me say many of those things to him and I felt was much that he heard. (Editor's note: Grove. files one of Microsoft's chief technical officers, is now the company's over

codesan suchitant 1 But what I would say is that for a good portion of my career. Eve loved Microsoft. Eve done great things with Microsoft. . . In no way, sense or form am Lanb Micronols Lam however against the overstepping of influence with government customers, and I feel between government as purchasure and Monacolt or expansion And d would be good for everyone to re-

establish that connection When you look back on your

tenure as CIO, do you been any recreate? It was one of the more name career experiences that I've had, and (ve done hard stuff, (ve done two what I would call significant turnerounds You walk into them, you know it's. coins to be sough - and that's part of

the attraction of trying to tackle them. Walking into theil lest year it worm't like a turnaround [But] I knew it was going to he much I felt the demoded to be done And it was rough and now it's over And there's kind of a bittersweet [leeling] tothet

Did it feel like a war in some warre? I containly saw it as a door

threat to things that I care about the ability of government to act as an independent purchaser, and the ability of a coverrement purchasing agency to not be introduced by aggreed vendors And it was deen with conflict [But] I have a nephew who's an Army entolic gence officer in Iraq right now, and my

Former Mass. CIO says he would make same choices again . course's son was an Army Ranner who was hadished in long So I'm could fabout usunal the war word

> There certainly was an inte and draining struggle. Yes What can be drawen as not understanding why it's being propinged as to why an American connecation would be behavthe flys way with an American state. can't of arrend the table and resolve

> the resues in a more rational and pro-How that you've had some distance, have you been able to come up with any answers to those perplexing questions? Those not given fear months and felt like

Fue come to rome new sorrows or different intellectual resolution of what hannesed I'm out left with a reason that some struggles, are worth haven and it's through those struction that our society moves easies lonward. Sometimes they're not pleasuret that it's the sauggle that tests concepts, it tests governance mechanisms

Do you have any regrets abo mine when you did? There

are things I mostif and things I don't regret. Last year was about, in a way me using my regulation to defend the agency And the last act of that was using my regulation and resignation to publicly highlight the lunding shortfall issue So I don't regnet having done that because I do think the rough needed highlighting. In all candor, it is penful for any CIO to resign, much less resign publicly, and that's the cost of the chaices. But I would make the same choices.

Do you have a sense of pride

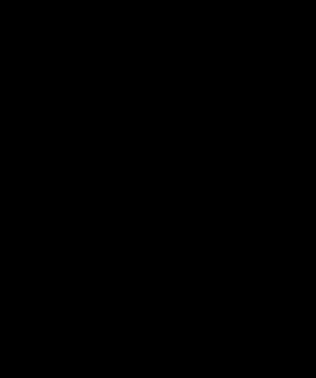
about what you did? I've shares wanted to have been the kind of char acter my lather was a longtime school administrator, streight an an arrow decent, a strong-backboned individual And I remain of the record that I duly not then and did it in a way that it would hope he would have been proud of As I used the word earlier, it's a very biffersweet mide it's a pride almost in defeat. But it is pride nonetheless, I would do it over again 9

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vices officer and CIO at The Proctor & Gamble Co., said the Cincinnatti-based consumer moods maker folded its IT unit into a abandacerciose onganization several years ago as part of an effort to "try to be distinctive, or unique, in what

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n Inc. has a small select team of IT security staff ers who are embedded into each of the company's examening and prod-

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CRAIG STEDWAN

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Did your experience your you on Microsoft? I think to be enterly far that large corporations have more persociates all at the same time, and I do think that there are individuals of character that I worked through a year with There is this whole theater of me keeping Brian Burke, [Microsoft's Northeast] government affairs special-

st and of the office. That was thenter for saving that this type of activity must ston. What I'm concerned about with Microsoft is just that there are portions of the progression, and possibly very endorsed nortions of the overangation that have lost a sense of notit relation with governments and with nevern-

ment customus

If you could say anything to Steve Ballmer or Bill Gates right new. what would you tell them?

Ray Ozze by ampoint to meet early in my tenure, let me say many of those thank to him and I fell you much that he heard [Editor's note: Ozze, then one of Marmont's about technical

software architect 1 But what I would say is that for a pood portion of my career. Eve loved Microsoft Tive done great things with Microsoft ... In no way sense or form am Lant-Microsoft, Lam, however, aparet the oversteaping of influence with government continuers and I feet that there's been a loss of connection between government as oursbever and Microsoft as innovator. And it

would be good for european to coestablish that connection When you look back on your tenure as CIO, do you have any

respects? It was one of the more number Everdone hard stuff Everdons two what I would call send card benaments You walk into them, you know it's going to be much - and that's part of the altraction of trying to tackle them. Walking into this last weer it worn't like a turnaround (Bull likewy) was appealed

be rough I left like it needed to be done. And a was rough and now a's own and there's kind of abstersweet (leeling)

Did it feel like a war in som www.? I cortainly saw dies a deep Shored to things that I care about the ability of povernment to act as an inde-

pendent purchaser, and the ability of a government punchasing agency to not be interridated by apprieved vendors. And a was deep with conflict (But) I have a nephew who's an Army sneligence officer in Iraq right now, and my

cousin's son was an Army Ranger who was badly best to lear. So Em county (about using) the war word

There certainly was an inti and draining struction, Yes, What can be drawned is not understood no why it's been nominard as to why an American corrections would be below. and this way with an Arrengan state It's beeng peoplesed as to why people can't sil around the table and resolve the source in a more rational and over

Now that you've had some dis tance, have you been able to come us with any accounts to those perplexing questions? I have

durtum was

not man four months out fair the Fire come to some new appares or different minifer to all resolutions of what happened (im sust left with a surror that some structiles are worth houses and it's through those struggles that Sometimes they're not pleasant but d's libs etsurets that lacte consente ill lests covernance mechanisms.

Do you have any recrets about resigning when you did? These are flyings I regret and things I don't mont Last war was about in a way me using my reputation to defend the agency And the last act of that was

usual my recruiation and resonation to publicly highlight the funding shortfall rosse Solidon Legret having done that because I do think the issue needed leghighting. In all candor, if is painful for any CIO to resion, much less reson publicly and that's the cost of the charges. But I would make the same choices.

Do you have a sense of pride about what you did? [vr shows

wanted to have been the lund of char acter my lather was a longime school artmontoscor straight as an arrow And I remain of the sense that I did a Don't from and did it ma way that I would hope he would have been proud of As I used the word earlier, it's a very biferownet mide. It's a node almost in defeat. But it is pride nonetheless, I would do it over again.

Taking the



IBM. WW.E

Miles the grait they will Systems, System a and Take Spok Control are inchessorie or recommed techniques, of International



INFRASTRUCTURE LOG

_DAY 25: Our ad hoc security salutions are out of control.

They're too difficult to manage. We're leaving ourselves vulnerable and exposed.

_Gil's had a security epiphany: high-powered lasers. They're everywhere. I keep zapping myself as I type.

"DAY 26: I've taken back control with the IBM System 2" mainframe. It helps us centralize our security management. Identity and access controls help protect our information from internal and external threats. And the System 2's militievel security feature—along with its integrated horndorne encryption—give us the highest levels of protection for our data and transactions.

_That's great. But it won't bring back my left sideburn.



IBM.COM/TAKEBACKCONTROL/Z

DHS Warms of Citrix Software Flaw

The U.S. Department of Hon land Security has warned of a bus in Citrix Systems Inc.'s Pretion Server Client that could we users onen in attack from clous Web sites, Security from Security APS said the has "highly critical" because of its wide distribution and ease of exploitation. Citrix suggests that users upgrade to Version IO.D of the client to fix the problem.

EMC Exec Named CEO of McAfee Former EMC Corp. executive

we DeWalt was named pres dent and CEO of security so re maker McAlee Inc. DeWelt former executive vice president of customer erations at FMC takes the helm of a company tainted by al-legations of backdating of stock

es. DeWalt succeeds Da Fuller, who had been McAfee's rim president and CEO since the October 2006 resign of George Samenuk as CEO and Kevin Weiss as president.

Mozilla Issues Fix For Firefox Flaw

The Mozilla Foundation has or lished a fix for a "critical" Java cript vulnerability in the Firefox ation suite. The fix tarp Firefex Versions 2.0.0.2 and 1.5.0.10 and Southerkey Very 1.1.1 and 1.0.8. The wat ed uniform resource i hers in image tags to be e even if JavaScript had been dis

abled in program preferences sh Court Rejects

ers' Appeal The U.S. Supreme Court has turned down an appeal by Bernard Ebbers, forcing the form IdCom CEO to serve out his 25-year sentance. The court ed the appeal without o 't have a fair trial becau

C ON THE MARK





You're Not a Number . . .

... you're a cube. Back in 1967 the television series. The Prisoner revolved around a contured any whose life - nast and present - was reduced to a number. In the title character's case, it was Number Six, SailPoint Technologies Inc. in Austin goes beyond numbers to

what it calls Identity Cubes, Shipping later this month the pliance IO software nearestes Mentity Cubes - one for each employee - which are meant to reduce rich within your oreanization SailPoint's idea is so combine a person's work history

and application access rights with the granular details of each armicution's functions. According to CEO Mark McClain, Compliance IQ creates a risk score that dictates whether an employee is allowed to perform an action inside a given application. Hannigan says. Pricing starts The score is determined by factoring in data such as the last time the employee was certified un access privileges or whether he's on probation. Naturally, you set the policies that go into determining a worker's Identity Cube score.

Well, then, maybe you're a number after all. Pricing stage of \$100,000 Similarly Of Labs Inc. in Waltham, Mass., next week intends to undate its OR adar 3100 appliance software "to

weave in the history of user identity" to belo manage worse rights says Chief Operatine Officer Borndan Hannigan, He says the appliance sifts

through aggregated

data from various

monitoring tools on your network and ties it with identity data to determine access rights. The upgrade is able to track identity through virtual private networks which often give users different IP addresses in separate sessions and make it difficult for traditional security tools to monitor end-user activity.

at \$10,000. Got a headache?

Take 2 million log calls and come up with a cure. That's what Support Soft

Inc. did. It analyzed about 2 million IT help desk calls from 20 large companies (average workforce: 75,000 employees), James Morehead vice president of product management and marketing at the Redwood City, Calif.based vendor, says the result

is his company's Headache Index of the most common problems and meet threat upon l'I support operarions. Yes, password issues rom the list with 20% of all calls involving a variation on the phrase "I forgot my password," While you've no doubt already automated the

perpoper to that one, other problems

probably lack fixes More bead thicks you should consider help desk automation for any problem that We or more of all calls. Take e-mail issues, which came in fifth on the Headache Index

chalking up an 17% share of help desk calls. Morehead points to Outlook's OST (offline storage) file as noc likely suspect. It's regularly overstuffed, which can cause Outlook to sputter and fail. Morehead notes that an automated fix is available from SupportSoft. And he says a lot of home PC users are contacting his company's recently unweiled consumer between

desk site, www.support.com. to express frustration with Microsoft Corp.'s new Vista operating system, "We're learning now to help IT later, Morehead says, Of course, when you roll out Vista, you might want to keep a bottle of

aspirin handy just in case. Virtual worlds need . .

... real-world tools for security and meritoring. EMC Corp.'s VMware continues to expand its role in the data center. But just because your application environment has gone virtual, it doesn't mean your IT problems are any less real. Gregory Ness, vice president of corporate marketing at

Blue Lane Technologies Inc.

in Cupertino, Calif., argues by unpatched coftware on as risky as any other His commons's near Virtual Shield software, which acts as a virtual ambience on VMware ensures that every connection to a V Mware application stack meets the most current vendor-approved patch status In other words if a backer was trying a buffer overflow exploit for which a patch was available, VirtualShield would correct the packets poing to the server to meet the new patch standard, even if the ann on the virtual machine hadn't been patched. (See "Skip Patch Tuesday Frenzy "On the Mark Feb. 26.) VirtualShield will be

available this Thursday with prices starting at \$499 Monitoring performance in a VMware world can be more complex than in a standard server environment, with multiple VMs running on a single host device "creating a highly interdependent ecosystem," says Duniel Heimlich, vice president of marketine at Reston Va-hased Netuitive Inc. He says one flaky VM



could affect the performance of all VMs. What to do? The compuny will ship its Netuitive SI for VMware

on March 30 Heimlich claims that the software self-learns its virtual infrastructure, the application stack, real-time performance characteristics and other factors, without installing any

accets, defining rules, writing scripts or setting thresholds. Netuitive's software, which runs on an external server while monitoring VMware. can predict performance problems at least two hours in advance, according to Heimlich. Pricing starts at \$5,000.0



SAS BUSINESS INTELLIGENCE

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ANALYTICS

Integer 8 a peach y registed into any costing environment. I merity put to book on destinect business specific. Still given you but every access to make detail some consistent and credible monthing, series desprement of data across pour organization, and accruate resignis.—I see collaborative decision making among uses at least lieuwise. And destinements in more of unaminar data, source, and make activities and account production of the series of the series of the series of the series of activities and series and the series of activities and series of the series of activities of the series of activities of the series of activities of the series of activities of the series of the serie

Want Proof? End out we say the set of the following except to the Sun Est

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Microsoft to Add Office Link To Its Dynamics ERP Apps

II BOSOUT CORP today is not to introduce a new tool that it says will let end users more easily access Dynamics ERP applications from its deskton software Officials said the company

plans to unveil the new Dw. namics Client tool, which will link 12 Microsoft self-service FRP renduces to Microsoft Office and SharePoint Server applications, at its Convermenco 2007 user count in San

Microsoft said the offering reduces the need to train Ofits FRP cofescion

lomes Litzschneider, general manager of Dynamics market. ine at Microsoft, also noted that Dynamics Client will allow users to secons backward ERP data without having to

hours of all and comes the con-Greater ERP Benefit Nick Garbidakis chieftech.

polary officer of the American Bible Society in New York

said that Dynamics Client has the potential to significantly extend the benefit of an ERP system He noted that the tool could chases and allow end users

to access backend corporate data without special training. Microsoft said it also plans to bring out new ERP implementation and migration tools. a new configurable interface. and several updated Dynamics

ERP applications during the conference Utzschneider said Dynamics Sure Step, the set of ERP implementation and miscration tools and processes, will help customers more efficiently roll cent the Dynamics roftware The new role-based user

cording to an employee's position - such as a financial or manufacturing post - within

a company: Utzschneider said. The hierest challenge in a customer relationship management or ERP application implementation is endused adoption, noted Rob Bois, an analyst at Boston-based AMR

Research Inc He said the new Client softwate should belousers more mickly access customes and other related information without making them low into the full-blown CRM application.

Microsoft Dynamics Client for Microsoft Office and Windows SharePoint Services. which includes basic data accres and collaboration capabilities, is priced at \$195 per user. Microsoft Dynamics Cli-

cost \$395 per user ent for Microsoft Office and be available in May 9

Product Upgrades At its Convergence user conference, Microsoft appropried the fellowers

SharePoint Server, which includes an executive dashboard and enterprise search and rolebased reporting capabilities The Dynamics Client will even protected health infor-

Continued from page I Texas House

Social Security numbers on each of the millions of pages of public records they maintain and then reduct them. Abbott's ruling caused an uproor amone county clerks in the state, who were punicked

at the prospect of being held criminally liable for actions they said were carried out as part of their normal business. Many of them quickly shut down or severely restricted rablic assess to assest assessed and sought help from state legislators, "When we first saw the lattorney general's] opinion we were just ponicked We were like. This couldn't be happening," said fanice Gray, district clerk for Corvell County and vice president of the County and District Clerks

Dianne Wilson, county clerk for Fort Bend County, added that much of the personal information has been freely available for purchase and inspection at county offices for many years. "We have always held that we are the repository of the public record." Wilson said. "The public has the right to view and copy and purchase any public record.

Association of Texas.

They have free access to it." She noted that county clerks can't reject a document just because it contains confidential information. Nor can they alter a public record, she said, "We cannot tell you what to put in a document and what not to. Wilson said, "We don't read the documents: we don't know if there is a [Social Security num-

berl in it or not. We are not the ones that put it in there. As the criticism mounted. Abbott quickly abated the opinion for 60 days to let the legislature act on it. In a letter to Fort Bend County Attorney Roy Cordes, the attorney ocneral acknowledged that "the real-world consequence lef the opinion) was a signal balt to a tremendous amount of basis ness and commerce in Texas." Abbott's investigation of

the issue was initiated after a 2005 inquiry from Fort Bend County about how its clerk was expected to deal with Social Security numbers listed on public records

The legislation that was passed last week, sponsored by Rep. lim Keffer of Fastland allows county and district clerks to disclose "in the ordinary course of business" Social Security numbers contained in public records. The bill holds that such disclosure is not

interface can be tailored acofficial miscombact and dose not subject the clerk to civil or criminal liability" under the state's privacy laws.

The measure also requires that Social Security numbers not be included in future public records filed with county governments, and it allows individuals to ask that their Social Security numbers be removed from existing public records. However, it is up to individuals to identify the

documents from which the numbers must be reducted The passage of HB 2061 is likely to come as a disappoint-

SECURITY EXPERTS down concerns by county clerks in Texas about the difficulty of redecting Social Security numbers from audi records posted on anyemment Web

Some pointed to states like Florida, where county governments are already reducting public records as mandated by state law Late lest year, Florida's Orange County completed an 15-month review of more than 30 million names. in more than 12 million public reco for personal information such as Sociel Security numbers, bank account information and credit card numbers

ment to privacy advocates. who have lone been concerned that many county governments are posting public records containing confidential personal information on the Internet without first reducting sensitive data. Many have noted that the list of the public documents posted on some county Web sites includes conies of property and tax records, motor vehicle information and

court files Many of these documents include Social Security and driver's license numbers, bank account details and sometimes

Shallowater, Texas. avoided by simply telling the handful of Texas counties

"This could have been that were online to pull their Web sites offline " Blows said It is the online records that threaten Texans, and the online counties that have put us all at risk."

mation, critics noted.

"Identity thieves all over

the world must be celebrating

today," said David Bloys, a re-

tired private investigator who

publishes a newsletter called

News for Public Officials" in

Critics: Clerks Can Easily Redact Personal Data From Web

In the end, 777,635 pages Janice Gray, district clark for 2.6% of the total reviewed - we Coryell County and vice president of

MacKoul, president of HIPIA Solu-

tions LC, a Sugar Land, Texas-based

They want legislators to write a

law running against the (attorney

general's lopinion. What they are

saying is that it is too difficult

to comply with the AS's ruling.

according to MacKord

found to have personal data that the County and District Clorks Asneeded to be andocted sociation of Texas, contended that "Right now, what you have is a lot elmeneting Social Security numbers of these counties (in Texas) running from the records would be a monudown to the state legislature and trying to scare them," said Peter The county clerks would have

to go through millions of pages to identify records containing the numbers, make copies of the pages and then block out the numbers on each copy, Bray said.

You are talking about extra pr entra storage and extra manon to do it she said. - JAIKUMAR VIJAYAA



ti uner-



This year's best of the Premier 100 maximized information sharing with projects that offered convenience for customers, comfort for cancer patients or tough luck for criminals.

An editoria

COMPUTERWORLD

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FULTSTRENGTH

IT budgets might be lighter and staffs leaner. but what never diminishes is the collective brainpower of an IT team put to the task. Couple that strength

with the vision of a true IT leader, and the resulting organization can move mountains, Many of this year's 10 Best in Class award winners used that mental force to bring about innovations

in information sharing. On the streets of New York, for example, detectives now have more than 120 million criminal and arrest records at their dis-



warehouse and crime analysis tools as a factor in the New York City Police Department's ability to solve 74% of all

munders and shootines that took place in the city during 2005. At The University of Texas M.D. Anderson Cancer Center under the leadership of CIO Dr. Lynn Voord, the IT team developed a Web services-based electronic medical records system that coordinates patient care by

& Linciprwater Web Despite the crowds, George Aquanum's restors renely wall in line to see exhibits. Thanks to its Web-based

reservotron and ticketing systems. Paper Erasers The U.S. Mantime Administration uses its maind programment section to make 25 000 re-orderes assiste

every year, with no harm to trees. § Global Assembly Internation attends took a part into farward at Tata Consultancy, which used a set of collaboration tools plus VelP to rust toward create by 400b, and talanthous create by 600b.

10 Synchronized Stock Navy acquisitors late: apparel gant VF Corp. sum a best-of-breed supply chan that has reduced alarning ovelet times by 75% and increased customer survice by 15%.

11 Cure Collaboration The University of Toxas M.D. Anderson Cancer Center improved patient care with an electronic medical records textern that bronz a nation is classed and research data to before PCs.

17 Assettion Block Auction house Bonhams 1783 developed a comprehensive auction management system that combines the func-tions of ERP, CRM, auction catalog production and reve-

13 Desistop Drop via a Web portal. We'ls Fargo busine customers can now make deposits from their desklope, saving the lattit and its outloners time and money.

16 Case Crackers The New York City Police Department's online database, which houses more than 120 million crimmal and a rest records, has been used by detectives to work on more than 3,500

17 Fraudkusters McNiger's IT department integrated data from multiple repositiones into a single data warehouse, helping investigators identify \$8.7 million in fraud ligit year.

16 Instant FT The GAD's Humcane Central portal coordinates the offorts of I3 mission teams specializing in areas as diverse as banking public health and flood control.

19 The Judges

bringing clinical and research data, along with medical images, to bedside PCs. The system has also enabled research collabora-

tion that might someday lead to whose in cancer treatment. Sharing information is great, but first you have to set at it. At the Michigan Department of Information Technology, creating an interrated data warehouse that belowd detect \$8.7 million in public assistance fraud last year meant breaking down cross-organizational information siles. And at the U.S. Government Accountability Office building a Web portal to coordinate disaster-relief efforts meant eathering information

tiple government agencies Now in its sixth year, Computerworld's Best in Class awards program honors IT leaders who bring projects like these to fruition. These honorces are a subset of the 2007 Premier 100 IT honorees who are being recognized for below ing their organizations achieve enals through technology innovation. To select this year's 10 winners, a panel of judges and Commuterworld editors evaluated dozens of candidates (see page 19). We looked for projects with measurable payback, strategic importance to the business, customer impact and new

from 13 mission teams and mul-

We hope you'll pick up a few ideas here and that these stories will serve as a reminder that IT innovation is all about finding new ways to bring people and information together.

INDERWATER

Georgia Aquarium

No lines. no waiting with the Georgia Aguarium's Weh-hased reservation and ticketing system.

ISITORS from around

By Iulia King

the world come to the Georgia Aquarium to see Beluga whales. piranhas, California sea lione rare whale sharks from Asia and even African blackfooted penguins. But despite the crowds, rarely do visitors wait in line to see these exhibits, thanks to the aquarium's Web-based reservation and ticketing systems. There's also no waiting to apply for a job, volunteer time and services, make a trips for school groups. Every one of these tasks is handled online via the aquarium's Web site, which functions as the primary connection between the aquarium, which is the world's largest, and its various sets of patrons. Developed primarily from

off-the-shelf software that was customized to accommodate specific needs, such as online fundraising, the Web site also functions as the aquarium's administrative heart and soul

In the Aquarium's first six months of operations, more than 70% of tickets were purchased online. Personnel also managed nearly 1,000 volunteers via the Web site.

ule their own work hours. By customizing commercial electronic shopping cart software, the aquarium also created an online donation system that has processed which lets volunteers schedmore than \$2 million from

VEB

technology at the nonprofit aquarium. "That said, we have seen some pretty significant advantages by either customizing or integrating that software."

For example, with an integrated online reservation and on-site ticketing system, Clark says, the aquarium is able to manage foot traffic through the \$50,000-squarefoot building.

through the \$50,000-squarefoot building.

"From an operation standpoint, if people can make a reservation and print out tickets at home online, then we could avoid problems that many other aquariums had where everyone showed up at the same time and had to stand in line. "Clark cases

stand in line," Clark says.
"We were successful in eliminating lines to get into the aquarium."
With online reservations and by lowing

tions and by issuing time-stamped admission tickets, "we're also able to manage the capacity of the building so that it stays full."

be adds.

From the beginning,

we knew that a successful
advanced-reservation system
would be critical to manag-

ing the record crowds we expected at the aquarium," says Clark. Since it opened in November 2005, the aquarium has hosted more than 2 million visitors. Still, the Web site's performance and value have far

surpassed all expectations, says Jeff Swanagan, Georgia Aquarium's CEO. Across all aquariums and zoos in the U.S., the previous high for tickets sold online was between 8% and 10% of

all sales, Swanagan notes. "Initially, our numbers were 90% [of tickets sold online]. That has fallen somewhat, to around 60%, but wow, we had never expected it would be this powerful."

he says. "As managers, it enables us to plan ahead — how much staff we'll need, tow much food we'll need and how we can help guests propose for their rate."

prepare for their trip."
Clark explains that online ticket sales were especially high in the beginning because visitors were more cognizant that a brand-new aquarium would attract a lot of people, which would trans-

of people, which would translate into long ticket lines. They were able to circumvent the lines by going to the Web. Now that the aquaritim has been open for a year, vistions, anticipating that lines might be shorter, might not feel the need to buy tickets

A second integration challenge involved customizing a Microsoft SharePoint document library that houses job applications so that it could be accessed by the outside service provider that recons

service provider that scores candidates' submissions. This, too, was done via an XML-based interface. Enhancements are ongoing, Just recently, the aquarium began offering a feature that lets users down-

going, just recently, the aquarium began offering a feature that lets users download information about all of its various galleries and exhibits from the Web site to their i Pods so they can listen to a free personal audio tour when they visit.

Across all aquaria and zoos in the U.S., the previous high for tickets sold online was between 8% and 10% of all sales; Georgia Aquarium's initial online

online, Clark speculates.
From a technical standpoint, none of the applications
used by the aquaritum's Web
site is especially complex.

site is especially complex. Clark notes. What is innovative about the implementation is how the applications are customized and integrated — work that was completed by a multiparty team of service providers, including Accerture Ltd. and Spunlogic, an Atlanta-based marketing and reschacions.

tr technology firm.

The biggest technical challenge was the real-time integration between the Web shopping-cart software and online techning. Clark says.

The Web shopping cart was

"The Web shopping cart was great for products, but it didn't have the capability to collect date and time information, so we had to customize the package for that," be says. The team created an XMLbased interface to link the

two packages.

aggressively adopting the Internet, not just for marketing but falsol for increasing and enhancing the overall experience of their facilities." says Dennis Kelly, president and CEO of Zoo Atlanta, "I'd say the Georgia Aquarium is at the forefront of utilizing the Web to present a very eneaging, customer-friendly front door to their facility." Looking shead, Clark says. the aquarium is aiming to enhance the Web site further so that it can better market to tour operators and local businesses. Among other things, the aquarium wants to partner with other local

attractions, including the Atlanta Fulton County Zoo and the World of Coke, to offer tour packages. "The Web site is a very big priority for us," Swanagan says, "Everything we do, we want to put on the Web site

knes to get into the aquarium, ays Beach Clark, woe president of IT at the Georgia Aquarium

40,000-plus donors.

"We're a relatively small business, so we have to stay pretty much with off-the-shelf software packages," explains Beach Clark, vice president of information



I'M MARY.

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Online procurement eliminates paper waste at a federal government agency.

U.S. Maritime Administration

By Gary Anthes

welve years ago, Coneress passed a law called the Panerwork Reduction Act, whose nurnose was to "minimize the paperwork burden" on who do business with it. But paper didn't quite disappear from Washington, as anyone who has bid on a government

contract can tell you Still a few brave public servants have taken a stand against the flood of paper. and Donna Seymour is one of them. As CIO at the U.S. Maritime Administration, she led the development of the Virtual Office of Acquisition (VOA). where 25,000 purchases are now made each year - with

no harm to trees The Maritime Administration recently managed its largest procurement ever, awarding a \$2 hillion contract for management services for 70 Ready Reserve ships. "We did the entire process online, never exchanging a single piece of



paper," says Iris Cooper, who, as director of acquisitions. is the chief VOA user at the agency, "When we did the same acquisition five years ago, we produced I million pieces of paper."

And, says Cooper, the VOA enabled her to enlist the help of hid evaluators in Norfolk Va., and New Orleans, something that wasn't practical in a paper-driven world. Seymour says the VOA

saved the agency \$250,000 in direct labor on the evaluation phase of just one acquisition, and it's on track to cut the time spent on acquisitions by 50%. The vendors

savings, she says The VOA is built on EMC Corp.'s Documentum enterprise content management software, which is integrated with a pre-existing U.S. Deegy and says, 'Here's what I partment of Transportation waot."

contract-writing system. VOA uses a Documentum workflow online forms and automatic XML tagging. It automates much of the multisten hid and proposal through award notification and contract administration. Seymour says she and Cooper brought some basic ideas for VOA to the Mari-

time Administration from earlier jobs at the Defense

Department, "It was kind of kismet." Seymour says. "We really just jelled right away. We had the same vision." Seymour says she faced two challenges as manager of VOA development. One was to supplement her staff of four IT workers, which she did by hiring a contractor. The other was to manage user expectations and shifting requirements through a

process of rapid prototyping. "We found that on iterative ioint application development approach - listen. prototype, demo, listen some more, refine, listen, demo worked best," she says. "We were very flexible in design and development but a little more rigid in the testing and

deployment phases." Seymour says the Defense Department is pretty far alone in automatine procurement. "But I think we are certainly in the forefront of civilian agencies," she says. Other Transportation Department agencies are con-

sidering adopting the VOA. she notes Cooper says of Seymour She got it from the first minute, what I was looking for. that bid on jobs enjoy similar She is very adaptable, and she clearly understands the acquisition process. And she empowers her people - she gives them the overall strat-

Tata Consultancy connects employees in 35 countries using voice over IP.

By Thomas Hoffman

niste 2003 Toro Consultancy Services Ltd.'s CEO, S. Ramadorai, had a simple but ambitious goal

for the Mumbai, India-based company Improve communication and collaboration post customers in westical among all employees. industries such as retail en-It wouldn't be an easy task error and financial services With nearly 80,000 employcan share and reuse com-

on my own reputation." The initiative, known as Project Infinity, involves a multitude of technologies including IBM's Sametime. OwiekPlace and Lotus

Domino collaboration tools - but the key component is a global voice-over-IP tele-

phony network provided by Ayaya Inc The VolP network serves as the backbone for the collaboration push. With it. TCS technologists who sun

and others said they were lems couldn't be resolved via video, says Anuva Pardesi. head of branding for TCS's innovation aroun We told them as part of

their travel requests that it was mandatory for them to explain why videoconference ine wouldn't be enough to

entiefy their requirements." says Pardesi. "So consequently, we were able to track costs on travel and improve usage of

or project issues in death based phones, Pardesi and other project members out concerned that some probtogether marketing camthe new phones was easier. faster and cheaper than us-

she says The campaiens included a "user of the month" contest, spotlight-

paigns to explain why using ing traditional phones, which typically require a code to be entered before an employee can access an outside line.

ing the employee who racked up the most IP phone minutes for a particular period. Pardesi and

Tata Consultancy Services videoconference **BAL ASSFN**

ees in 35 countries, Ramadorai wanted to see more real-time collaboration and information sharing among workers in different time zones who come from disparate cultures and whose clients are in different vertical

Even though TCS's CFO was a key supporter of the project, "the biggest challenge for me was to show my business peers the overall benefits of the project," says Chief Technology Officer K. Ananth Krishnan.

Development began in 2004, but the biggest payoffs wouldn't be visible until mid-2005, says Krishnan. "So it was a leap of faith for our senior leadership team" to buy into the project, he adds. "I had to sell this pretty much

mon code "spippets," says Krishnan. The VoIP network has also

enabled TCS to reduce its travel and telephony costs because the system supports videoconferencine amone associates in far-flung offices

In fact, over the past year. TCS has reduced its domestic and international travel costs by 40% while slashing its telecommunications costs by 60%

Still, getting employees to use the VoIP network and achieving those savings wasn't easy. For instance, when TCS's IT organization first began promoting the idea of using videoconferencing to connect with colleagues, some employees insisted that they needed to travel to discuss business

ing," It beloed that TCS's CFO, S. Mahalingam, stood firmly behind the mandate to justify travel she says

Project Infinity team leaders also expected that once IP-based phones came out adoption rates "would take off." says Christopher Hud-

"It was a leap of faith for our senior leadership team."

K AMANCH KRISHMAN CED TATA CONSULTANCY SERVICES LED

son a principal consultant who ran the TCS project management office. But as it turned out, many employees didn't want to abandon their existing phones, he adds. To help encourage adoption of the VolP telephony network, including the IP-

There was some initial excitement among users about the VnIP network

her group also came up with

name the VolD estaud. The

rupees (about \$113 U.S.), says

winner was swarded 5,000

Pardesi.

a contest for employees to

Tour is district meak " core Pardesi, "So we had to go back to the drawing board to determine how to sustain interest. We realized we needed to get this message out very clearly and to repeat this message consistently until it caught on."

NIZED STOCK

Many acquisitions later, apparel giant VF runs a best-of-breed supply chain. By Jennifer McAdams

In some cases, SCP belos

"Humans have a real habit of

getting into habits. Because a

is a temlency to stay with it

down, SCP doesn't have any

VF worked with i2 to

ensure that SCP could run

all components of its manu-

facturing resource planning

window. The process takes

about three hours, starting

with data feeds to the soft-

ware engine and ending with

Optimizing SCP for each

major business line, however,

Unlike VF, many compa-

the export of planning and

procurement answers

system in a nightly batch

habits," says Martin.



VF Corp.

ring to more than just cowboxs with its some ture Lee and Wraneler icanswear lines. VF Corp. has become a "lifestyle" apparel company by acquiring brands tailored to surfers, skateboarders, outdoor outburings and others Supply chain management has belond this manufactures change its image and over-

haul its factory operations and sourcing channels. Greenshorn, N.C.-hased VF has been around for more than a century and is one of the world's largest apparel makers. When VF first went into acquisition mode several years ago, officials decided to consolidate administrative functions by adopting a bestof-breed approach in which it mutinely discontinues the use of many systems from the companies it absorbs. At the initially using SCP 3.8. same time, an overarching supply chain management VF to reduce risk, but it also system now stretches across being the company to take chances on new ventures.

VF's many divisions Having grown to gargantuan size. VF is determined to make the most of volume numbases, locate the best facilities in which to make particular products and quickly move inventory. VF ration in \$7 billion in calm-

annually. It churns out more than \$00,000 SET In - ID numbers used for each backpack. pair of shoes or seams that it makes and ships to about 47,000 netailers Production relies on more than 1,600 factories, over 000 fabric wholesal ers and nearly 3,000

To identify and

trim suppliers. isn't without its challenges. When you start says Will Shiver, senior projto track all of these ect lead in VF's forecasting numbers and think and planning area, "Even though SCP is a common sysabout managing a supply chain of this tem within VF, our individual size, it is just mindbusiness units - we call boggling," says Ellen them coalitions - are very Martin, vice presidiverse. Each one has offered dent of supply chain unique opportunities for cussystems at VF. tomized solutions," he says.

keep up with customers shopnies fail to make supply chain ping for both new and tradimanagement an integral part tional VE brands IT officials of consolidations or memore are forever grooming the and acquisitions, says Mark supply chain system, which Hillman, a supply chain anais based on i2 Technologies lyst at AMR Research Inc. Inc.'s Supply Chain Planner

"Companies are not nec-Versions 6.1 and 6.2. VF partessarily looking for supply nered with 12 in the late 1990s. chain efficiencies and onportunities to consolidate the number of suppliers in their hase" he says

Heine a comply chain system is essential for planning internal operations and addressing the needs of major ampliers. "Our system belos color was once popular, there us plan for base items - the even though demand has gone products we need month after month - and optimize production of those products to keep the capacity of the sewing floor steady," says Martin. "We don't want to have snikes one day and send workers home the next." VF has worked with 12

to develop a system called Material and Asset Planner or MAP Solver. This module lets business unit leaders determine how to maximize volume discounts while kerning in mind options for producing a particular item.

"In the end, it comes down to a nassion for this business," Martin says, "We are passionate about VF, passionate about our customers and even passionate about

the software we use." McAdams is a freelance writer in Vienna, Va. Contact her at IMTechWriter@anl.com.



Patient data is streamlined at this national cancer research center

By Stacy Collett

alf of all families who have endured some form of concer say they experienced problems related to coordinating care during the course of treatment. One in five participants in a November 2006 survey said they received

based electronic medical records (EMR) system that brings a patient's clinical and research data as well as medical images, to hedside PCs.

"In cancer (treatment) the worlds of research and clinical care are so closely ried together" Vogel says "Our philosophy is that every piece of data that our parient generates, whether it's research data or clinical data

should be part of their EMR." What makes the system unique is its service-oriented architecture (SOA) which allows more than a dozen

available EMR system could combine both images and data. let alone do so in an SOA environment. That's

largely still true today, says Deborah Kohn, principal at Dak Systems Consulting, a health care IT advisory firm in San Mateo Calif.

"The vendors who are out there have been developing systems for years. These companies have invested millions in client/server technology, and tons of customers are totally invested in the technology." Kohn says. So existing vendors are un-

systems. Clinicians began to ask for the same program in the hospital. So we began working with the central IT organization and we made that happen in March 2001."

*We scressed the reports directly from the source systerm using Web services to

initially get access to the data." says McEnery, "We've been able to expand that model to include 30 different sources of data that are currently being used by the system." The pest challenge was to ensure that the system was

IRE COLLABORAT

The University of Texas M.D. Anderson Cancer Center

procedures or said they were confused about medications their doctors prescribed. Others reported that medical records didn't sough a doctor's office in time for

"Clearly, a top priority for improving cancer care in this country is fixing this problem." says Robert J. Blendon, professor of health policy and political analysis at the Hora vard School of Public Heath. which authored the study of 930 adults affected by cancer in partnership with the Kaiser Family Foundation and

USA Today. With the belo of his IT staff Lynn H Voced vice president and CIO at The University of Texas M.D. Anderson Cancer Center in Houston, is making great strides in coordinating patient care with a Web-services-

departments to use their own best-of-breed processes and software. Each program is wrapped with a services layer, and they collectively form a "virtual data reposi-

tory" that is accesethic to eliminate for viewing or inter-The center's first

EMR project. Clinic-Station integrates a clinician's access to both images and clinical data for each patient. On the research side.

the Clinical Research Information Suite of applications tissue bank, a model for the collection of research data on notients and a data repository that has been built

on a research data model for cancer research. When the project began in 2000, no commercially

likely to convert to an SOA, though many have added some Web features to their front ends, she adds. Dr. Kevin McEnery, the visionary behind M.D. Ander-

son's EMR system. hatched the idea for an all-inclusion say. tem in 2000 when he was an assistant new fessor of radiology. "We were creating

too much paper and couldn't keep up. So we began to look at a better way to present clinical

information to the radiologist," says McEnery, who is now professor of radiology and deputy division head for informatics in the center's disepostic imaging division

Initially, it was just radiology reports. Then I decided that I also wanted, as a radiologist, lab data and clinical notes. So we obtained those from other robust enough to handle an expanding user base, which quickly grew from several hundred to several thousand Vorel credits Chuck

Suitor, director of EMR development and support, for envisioning early on a threetioned anchitecture with multiple servers in the midtier Today, the system routinely documents 3,000 concurrent users who look at 1.5 million electronic patient records

each month "When they stop discovering new things about cancer or new ways to treat patients marke we'll have a stable environment," says Vocel

Until theo, things are changing almost constantly, and we will continue to change to keep up with it." Collett is a Computerworld

contributing writer. Contact her at stcollett@aol.com.



AUCTION BLOCK

Bonhams 1793 Ltd.

By Gary Anthes

cohams 1783 Ltd. is a
distant third behind top
succinocers Christie's
sand Sotheby's. But it's
caning up, thanks in part
to an auction management
system developed under the
direction of CIO Roland

whitehead in the system, Whitehead bucked conventional wisdom, which says nobody in bis right mind would develop a big, complex application from scratch when commercial packages are available off the shelf.

when commercial packages are available off the shelf. His secret? First, select software that can be tightly integrated and at the same time easily modified. Second, go for open-source software whenever possible. And third, adjust the attitudes of both developers and users. In 2000, Bonhams, which is based in London and bas operations in the U.S., embarked on a series of five acquisitions. After the first one. Whitebead was brought in and charged with evaluating and standardizing IT systems. The leve was devolves.

and charged with evaluating and standardizing IT systems. The key was developing a custom, comperhensive auction management system that would combine the functions of ERP, customer relationship management, auction catalog production and more. The result was A3.

Bonhams' big competitors had chosen packages from SAP AG and Siebel Systems Inc., but Wbitebead wouldn't go there. "You get packaged applications, and then you have to tailer them to your needs, but you also have to change your business too much for the tailored applications," he says. "We have proven that you can develop a system from scratch at significantly lower cost."

Whitehead selected database and development products from Progress Software Corp. He says the Bedford, Mass-based vendor's OpenEdge application framework officed a unified environment of development tools, application servers and application management tools. It also provided an embedded database and hooks to connect to and interarts

with other applications and data sources.
"In previous projects, I've chosen a database from a database vendor and a tool set from another vendor," ways Whitchead. "But we wanted a development suite.

that was all in one."

Bonhams' developers used the tools and database to exablish at the beginning of the project a development framework — a set of routines and procedures that could be easily modified and built upon. Screen formats and connent were database-driven and could be changed without new code having to

be written, Whitehead says-"By careful planning of their architecture, they were able to lachievel cost savings by deploying everything on 1BM Schries servers running Linux," says Robin Porter, business development manager at Repton Computer Products Lid., an IT reselfer in Hanworth, England. "Not many were bayer cough to

do this so early?

Whitehead's boldness
extended to bis choice of
application software as well.
Everyone else in his situation would have done what
everyone else does — buy
an expensive ERP or CRM
solution and hire expensive
consultants to implement
and tailor it? Porter says.

But the key to rapid development didn't lie solely in technology, Whitehead says. 'It's primarily a matter of mind-set," be explains. "You have to believe that you can actually do it."

That meant boosting the IT staff's confidence. It also meant building the rest of the company's appreciation for IT people — "who traditionally had been fairly close to the bottom of the pile," Whitehead notes.

A3 enabled Bonbams to significantly reduce the ratio of overhead staff to revenueproducing staff, Whitehead says. "Our earnings staff were in the minority," he says, "but now they clearly are in the misority."

Customers sign on for cheaper. faster deposits.

By Robert L. Mitchell

ells Fargo & Co.'s business customers aren't exactly laughing all the way to the bank. but they may be laughing in their offices. Steve Ellis wouldn't have it any other way. The executive vice president of the company's wholesale services group says that thanks to the bank's evolving Desktop Deposit application, more customers than ever are skipping regular trips to local branches. Instead, they're making deposits from their desktons by scanning nancy checks through their PCs and uploading the images to the bank's Web portal.

The application, integrated with Wells Fargo's Commercial Electronic Office (CEO) portal, has been in operation for less than two years, but it already services 15% to 20% of all check deposits the bank receives. The process saves both Wells Fargo and its customers time and monev. Desktop Deposit, says Fillis is "the fastest single product ever adopted" by the bank's customers.

It has also made the bank more competitive by allowing it to offer deposit services in more locations in the U.S. and abroad without having to build local branches

"It's enabled us to do borderless hanking," says Stephanie Sturgis-Griffin, senior vice president of wholesale Internet solutions at Wells Farmo. The bank can also handle deposits from more locations for its business.

customers. "[Customers] are able to consolidate their banking relationships across all of their officer because they no longer need to have a local branch" says Donny Poler executive vice president and head of wholesale Internet

and treasury solutions. The bank's decision to

deposit capture application. switch gears after the appli-This has typically been an iscation's initial introduction

annication without digranttions and it should make uperadas to newer scanners

easier as well "Thin client gives Wells total control over the remote-

Some customers use a downloadable Excel spreadsheet report feature - another improvement that custom ers requested - to directly

undate their receivables systems. That saves another step, save Sturvis-Griffin Wells Fargo's approach differs from that of most sue with check [applications]." of its rivals, which have

Wells Fargo & Co.

could be another reason for the product's success

The first version required customers to install a "fat client" application and driver software for a scanner that plugged into a PC's USB port. Desktop Deposit now relies on a single ActiveX control within the user's browser that interfaces with the scanner. Customers use their browsers to access the application, which resides on the bank's BEA WebLogic serv-

ers. Written in 12FF, it offers users the same familiar look and feel as the CEO portal's other applications. "It's a time-saver, and it

gets your money in quick There are no cons to this," says Julie Keegan, controller of Craig Hospital in Englewood, Colo. The system, which required to minutes of phone support to set up, extends the window for making the deposits and receiving same-day credit.

And Keegan says it saves her staff three hours per week. The thin-client architecture has given Wells Fargo the flexibility to make five

says Stessa Cohen, an analyst That Bexibility has made it possible for the bank to quickly add several new features. It now allows businesses making deposits to associate other data, such as a customer ID, with each check. It also lets users scan in the remittance coupons

that their customers send in with their payments Wells Fargo also added the ability to download and print receipts and PDF files containing the check images.

purchased remote deposit applications. That approach typically doesn't let banks integrate remote deposit tools tightly with their primary business banking portals or support thin clients. This year, Wells Faren plans to make the application available to its smaller

business customers. Stureis-Griffin says she expects the same rapid uptake within that market, because "there's a sexiness to if that attracts outlomers to



I'M KATE.

I'M A SALES REP.
I KNOW YOU JUST SENT ME
AN URGENT EMAIL
BECAUSE I HEARD IT
ON MY CELL PHONE.

SEE HOW INTELLIGENT COMMUNICATIONS
IS CHANGING KATE'S WORLD AT AVAYA.COM



CASE CRACKERS ess with the financial folks down at City Hall? CIO, the department had been constrained in its offorts to apply technology to crime fighting by stovepiped systems throughout the de-

New York City Police Department tominal crime analy

Instant access to 35 billion public records helps the NYPD fight crime.

By Thomas Hoffman

ast year, robbers held up an Italian pestaurant in New York at ourse point. The thieves were masked and fled without leaving many clues. But one piece of information was enough for detectives to crack the case. Witnesses said one of the robbons detectives to use stored inhad the word "sugar" tattooed on his neck. Using a new hightech crime-solving system.

of tattoord criminals that helped them identify and arrest the suspect within hours. NYPD detectives use the database as part of the Real Time Crime Center (RTCC): which was rolled out by the department in July 2005. The system houses more than 120 million criminal and arrest records and provides access to more than 35 hill-Hop public records: NVDD detectives have used the system to work on more than 3,500 cases so far, including so-called cold cases, which

involve crimes that have remained unsolved the system, alone with cussis software to track down a suspect in a 1988 murder who had moved to South Caralina, says lames Onalfo. the NYPD's deputy commissioner and CIO

In May 2003, NYPD Commissioner Ray mend Kelly hired Onalfo to oversee development of the RTCC. The protect originated after Kelly asked IBM executives Lou Gerstner and Nick Donofrio to belo the department implement technology that would allow

formation more affinationly to solve crimes New York City Bolica Depart IBM Global ment detectives entered the Services built the

data werehouse using Web-Sphere, which utilizes IBM's DB2 universal

cess information housed in a series of data marts using Cornos Series 7 PowerPlay technology, which enables rapid data mining and oueries. In addition, Hauppauge, N.Y.-based systems integrator Dimension Data North America Inc. developed a set of forensic tools to help detectives analyze their cases.

The PTCC is not only ownsidered state of the art amone been approved. "getting the law enforcement agencies. authority to spend it is anbut it also stands out among communities that are looking You have to go through an to create regional computer arduous, time-consuming

forensic crime labo that neighboring cities and federal and state law enforcement agenries can share says leff Fischbach, president of SecondWave Information Systems

to attach DNA information e Choremouth Calif. to records. The crime center based consultance will be further aided when With a regional crime center all 285 NVPD precipets are format, says Fischbach, "you upgraded from 4MB intercan have local, state and net access to 100MB access federal law enforcement au thorities working under the

which is expected by August. says Onalfo. The crime center has ecnerated impressive re-For all the successes of the RTCC, the project team bas sults. In February 2006, New York City Mayor Mi-

and meticulous OSc A proce-

Before Onalfo became

cortment. "So the thinking at City Hall was 'How are you point to do it new?"

Onalfo managed to sell the

merits of the project to New

York's bean counters. Never-

theless, he's still trying to ob-

ward with the final phases of

rain approvals to move for-

the project, including plans

had to overcome multiple NYPD CIO lamos Onalfo says previous efforts to apply technology to crime fighting were constrained. "So the

> chael Bloomberg announced that 780 of all mundoes and shootings that took place in the city during 2005 had been solved, many with the the data to ensure that detechelp of the RTCC tives would be working with

It helps that most of the 40 full-time detectives who staff the crime center are already computer sayvy. notes Deputy Chief Joseph initial funding for the system D'Amico, commanding of ficer of the RTCC. Computer knowledge among incoming law enforcement officials is on the rise nationally, acother huge task," says Onalfo. cording to Fischbach More had news for the had

thinking at City Hall was, 'How are you going to do it now?' " obstacles to achieve them. database. Detectives can ac-For example, with such a massive volume of crime records, the team had to spend countless hours "scrubbing"

the most accurate informa-

Another big problem was

obtaining the \$11 million in

after the RTCC project had

from City Hall. And even

tion possible, says Onalfo.

Breaking up interagency data silos helps the state of Michigan catch cheaters.

By Robert L. Mitchell

ach year, the Michigan Department of Human Services (DHS) grants approximately \$5 bil lion in public assistance to some 1,2 million Michigan residents - including some people who are bring to get it. Although the information that investigators need to

help expose fraud is available

until recently they couldn't

the enterprise to produce

these kinds of results," says

Ken Theis, chief decury director at the DIT The day care program. which provides assistance to working parents, had been expanding rapidly for the past five years "We had a feeling this was a problem." says Dave Russell departs ment specialist at the DHS-OlG, adding that some appli-

cants were creating fake pay

activity such as recipients who earned less than \$500 in wages but received a buch dollar amount of day care reimbursements. We're able to target the

hashen-dallar areas "Their says, and investigators are now more efficient at finding frond Detection rates rose in the first two years of the initiative - identifying \$3.3 million in fraud in 2004 and \$9.2 million in 2005 - but the numbers drooped back a bit in 2006, to \$8.7 mil-

lion Publicity shout the pro-

gram and subsrought prose-

cutions may have contributed

to the drop, "Fraud is starting

gence tools in place before it began the propert. "It wasn't a matter of bringing in new technology but bringing the pieces together" says data warehouse contractor lim The DHS has used the

technology in other areas as well. Their says the DHS saved \$1.6 million last year by identifying and removing from welfare rolls neonle who had left the state but more call secondalism contra tance The DIT interruted dara from an electronic benefits transfer vendor (benefits are provided on a

debit card) and investigators could then create queries to discover which clients were using their benefits in our-of-"If they're not a resident

it's a resource drain." Theis says, citing the state's role in paying out Medicaid premiums to HMOs, administering the issuance of federal food stamps and providing some direct cash assistance.

Now the DHS is working with the federal Public Assistance Reporting Information System, an information exchange established by the U.S. Department of Health and Human Compless. The service matches up Michiuse DMS data with that from other states, as well as with federal wage and Veterans Benefits Administration data

We're developing our query

tools and will be using the data warehouse," says Theis To Theis the success of the initiation isn't so much about catching fraud as it is making sure resources get to those who need them. "It is enabline DHS to direct more and more resources toward their clients during a time when their need is the great est and funding is stretched." he says #

RAUDBUSTE

State of Michigan

easily match up data because stubs using home it existed in different agencomputers, "We've cies' information systems. tossed around dif-The Michigan Department ferent ways to figure

of Information Technolthis out, but we've ovy (DIT) has been busy never had the tools remedying that problem to belo." by integrating data from The DHS uncovmultiple repositories into a ers cheating by single data warehouse at the comparing quarterly wage DHS. It has also put busidata from the Michigan ness intelligence query tools Department of Labor & Fee-

and reports into the hands nomic Growth (DLEG) to of hundreds of investigators see if recipients of day care and staffers for the DHS assistance are indeed work-Office of Inspector General ing. Before, the agency relied (DHS-OIG), who identified on calls to a hot line or work \$8.7 million in fraud last er complaints. Now, the DHS year Most of that was seen receives quarterly electronic ciated with the state's DHS updates from the DLEG and Child Development and Care uploads those into its own data warehouse. Using query assistance program. "We (at the DIT) help tools that DHS-OIG staffers agencies share data across built using Business Objects

software, investigators drill

down to identify suspicious

to go down because the word is getting out." Theis says. While several hundred staffers and investigators can create their

own queries, the DIT also rurs reporty into the hands of more than 3,000 DHS staffers sv downloadable PDF or spread-

sheet documents "The fact that critical data. such as ware data, is locked in complex legacy applications makes progress very difficult," says Gene Leganza an analyst at Forrester Re-

search Inc. "Michigan's ability to build a data warehouse across programs and departments definitely puts them in the front of the pack" compared with other states. The DHS had a Teradata data warehouse and Busi ness Objects business intelli-

By Drew Robb

lot has been written about what companies should do to keep things runnine when a Harricane Extringuism disputer strikes But what about those who come in to clean up the mess? For Anthony Cicco Ir., then CIO for the U.S. Government Accountability Office and now a director at SRA International Inc. this meant immediately building a new nortal for staffers to coordinote their actions.

*The GAO managing director oversoring the recovery asked if we could put something together that would allow the teams to documents and keep up to speed on what other people were doing "says Cicco. "The key goals were to make it easier for them to plan their work and to ensure efficiency by avoiding overlap."



standard Wish-based tools and a staff who knows how to use them, you can turn something around like this a lot essier The challenge the GAO

faced was that it didn't normally have multiple teams working on a large-scale project, Katrina operations, however, required a dozen separate teams working on as many as 30 simultaneons missions. Many of them needed access to similar in-

formation and documents "We had no way of sharing such documents and information in an easily searchable, readily accessible way." says Bill Jenkins, the GAO's director of homeland security and justice issues "Conerally, prior to Hurricane Central staff had to search for such information across a number of encasyments by iob code, which assumed one knew the job code for each of the 30 engagements."

The GAO's Hurricane Central helps coordinate the efforts of 13 disaster teams.

U.S. Government Accountability Office

Congress had assigned the GAO the task of reviewing the harricane recovery efforts. The job entailed the coordinated efforts of 13 mission teams specializing in , areas as diverse as banking. public health and flood control - as well as the participation of staff from the U.S. Department of Homeland

nearly Management Assence (FEMA) and state and local agencies. Cicco presented a plan within four days, and a new portal - Hurricane Central - was online in two

and a half weeks. The companies that do best in an emergency are those that have their disaster recovery plans firmly in place. In the GAO's case, the work

mation requests of FEMA started well before the disasand other agencies, which ter. About a year before Kadistracted them from their trina struck, IT staffers were volunteering their time to explore the issue in a skunk works project, says Cicco. *We more formand

thinking enough that we

were in the right place at

the right time," he says. "To

the extent that you have a

vital recovery missions. Cicco's Hurricane Central portal proposal addressed each of those issues. It contained all the key information, such as national plans. reports and congressional testimony, as well as state and federal contacts Usstandard infrastructure with ers could access support

There was also the matter

of making redundant infor-

services for travel and videoconferncing, a calendar listing the GAO's Katrina activities, and a discussion forum. Team members could post their current work and access the GAO's document

management system "Four things make collaboration work: You have to know who's involved, what they are doing, how they are going to be connected and what the time constraints are " says lessies Linearly co-author of Virtual Teams (Wiley, 2000) "It looks like they hit all four of these."

Another key factor was balancing speed and usability, since federal workers couldn't spend a year designing and testing the system. From a technology standpoint, this meant using existing resources.

"The most important lesson is that they built it in a hurry using Apache and HTML rather than formal enterprise portal software." says Tony Byrne, founder of CMS Watch in Silver Spring. Md. "When you are in a burry simpler is bester The portal technology was the easy part. The harder

part was making sure it met the users' needs exactly "My biggest fear was that we would build something real

quick that had no value to anybody" says Cicco. His team worked side by side with a customer advisory group that could give quick feedback on portal is-

grations so the system could be continually refined. "It was also a good model of how the IT folks and analysts could work together to create IT tools that enhanced the CAO's shilling to do its work effectively and efficiently," says lenkins. Throughout the process, IT was constantly asking questions about how they could number of GAO teams."

make the site both more user. friendly and useful." **FFFICIENCY**

The site was up within three weeks, enabling faster access to information and tighter coordination between the

"It would have been considerably more difficult to coordinate all of the Katrinarelated engagements across the GAO and would have resulted in greater duplication of data requests from the DHS to other agencies," says lenkins. *It would also have taken more time and effort to answer congressional inquiries about our Katrina-

related work." Hurricane Central no longer needs to support the number of Katrina prosects it once did but its underleine new uses at the GAO.

technologies are being put to "Although our Katrina related work is winding down, the portal has proved so useful for ongoing emersency preparedness and response work thru we continue to keep it undated." says lenkins. "The portal has been the model for creatine a similar portal for our work on a potential influenza pandemic, which involves a

things simple made the sine a success - and that's something other organizations can replicate

"See what value you can bring by building a 'small p' portal with existing tools and technologies already resident in your enterprise before investing in new tools that will - by the time you purchase, install, customize, pilot, debug and roll them out - push your project back at least a year," he says Lipnack agrees that it's not necessary to go overboard building a portal. "You can throw all the technology in

the world at these things

but unless there are wood

work processes, good people

processes and a lot of trust it just isn't going to happen." the save

Cicco did this by establishing a tight working relationship with users. He says the GAO's portal project includes a "rigorous process simplification" approach, so data is entered once and the system builds the documen tation preded for an audit. Although Hurricane Central was a success. Cicco

says if he had it to do over again he would break down the deployment of new features to make it easier for users to absorb the data. The main lesson is that occanizations can get far more out of existing resources than they realize, so they don't have to look for something new.

"Organizations probably use 30% to 40% of the functions of their existing technology," Cicco says, "Just by giving people time to research and get under the hood of what you already own boosts productivity. "Nobody could foresee the events of Katrina," he adds. but if CIOs are constantly easier, they will be in a ber-

ter position to respond." # Robb is a Computerworld contributing writer.

BEST IN CLASS **JUDGES**

SPECIAL THANKS GO TO OUR JUDGES. who helped evaluate the dropps of projects submitted by the 2007 Premier 100 IT Leader honorees. in particular, judges were asked to look for signs of measurable payback, learning experiences. strategic importance to the business, substantive customer impact, expansion or change in the role IT plays in the organization, and the creation of new enue opportunities or cost savings. Judges. themselves Premier 100 IT Leader alumni, evaluated only those candidates outside their own industries.













TWO CIOS WENT TO IP TELEPHONY

Q: WHO DID IT THE **RIGHT WAY?**





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Allen Firm Unveils 1.5-lb. Ultraportable PC

Execs not yet sure of corporate uses for Vulcan device

BY MATT HAMBLEN

Vulcan Portals Inc. last week introduced a supercompact PC that weighs 1.5 lb. Known as the FlipStart, the full-function oper at FlinStore DC has a 5 fivin remain can I abe a technol. run both the Microsoft XP Pro ony incubator tha or Windows Vista Business is a division of Vulcan operating systems, and has a cold the DC is alread to 30GB hard drive, according to start shipping on March 27 company officials and will retail for \$1,999 Seattle-based Vulcan. the conference, sponsored by

founded by Microsoft Corn. cofounder Paul Allen previousel the tool for about a dozen IT managers at the Mobile &

here last Topodou a but they need time to day before find the right corporate ite formal application for its use unveiling. "I think it's going Keith to be a couple of Amort renice wears before product man-

um know where this device for said Kerry Sedwick, director of tech-

nical architecture at American Express Technologies. Sechwick energlated that the

device could be used by American Express Co. apents during visits to the company's retail customers, when they need a fully functioning PC but "don't want to crate around a heavy

"People will love the small size and weight but won't like the small keyboard and how

hard on the eyes it can be." Sedwick suggested. Noting the small size of the type on the screen Seducick and other IT managers said the device

might be best simed at users under 40, who are less likely to need reading glasses Genera McOnillister senior product manage for mobile complete as Dealfor Con and Electric Co. in San Erancisco

said he is unsure bow quickly the FlinStart or similar devices such as the Model 7 product brought out by San Francisco-based OOO Inc. in Innuary will catch on with corporate users.

When one sees somehody felsel using it, others will want it." he said. "Certain individuals. like my teenage son, would love it." especially because it can run sophisticated commuter games, McQuillister noted. Similar to a small lanton, the device features a QWERTY

keyboard when the clamshell is open. The keys are too small for touch-typing, but they can be pressed with one finger or "thumbed," as users do with other small devices. Amod:

The exterior of the ElinSter features a so-called InfoPane that can display a calendar Outlook e-mail and contacts when the device is closed Amode said

Wireless access will be provided by a single carrier yet to he named using the Euchgion Data Optimized Rev. A nerwork. Amodt said. Wi-Fi funcrionality over 802 Bb/e will also be provided be said Gerry Purdy, an analyst

at Frost & Sullivan, said the FlipStart and similar devices represent "an interesting new category" of mininorrables Purdy said that he can see the current 30GR hard drive in the FlipStart growing to 100GB in future generations, with the standard SIZMR RAM syrus ing to ACR a

IBM Adds Google Gadgets to Portal

IBM and Google Inc. have jointly unveiled new portler software that will allow users of IBM's WebSphere Portal to integrate more than 4,000 Google Gadget services and utilities into the portal.

The IBM Google Gadget Portlet, which will be available in April, will allow companies to add gadgets such as mans. to-do lists, product delivery tracking tools, driving directions and language translators to WebSehere Portal 6.0 and Portal Express systems used on corporate desktops, said IBM

'Curb Appeal'

Frank Brooks, senior manager of data resource management and chief data architect at Chattanooga-based BlueCross BlueShield of Tennessee Inc. said that the gadgets could add "curb appeal" to the insurer's WebSphere portal.

However, he added "most of them wouldn't be meaningful to our employees" because they include pophysiness endgets like webcams and games. Brooks did note that the link with Google could enable his company to pull in more substantive gadgets that Google

is a meaningful gadget as opposed to a frivolous eaders? "We're trying to bust the barrier of things you do on the consumer side and things you do on the enterprise side " said Larry Bowden, IBM's vice president for portals and Web steraction services For example, a gadget that provides driving directions could be useful in the business world, he said, noting that sales personnel could use it when driving to clients' offices. At many companies, he added, employees are demanding tools like wikis, blogs and instant messaging, which can

IT managers interviewed at

Palo Alto, Calif-based consult-

ing firm Frost & Sullivan Ltd.

said the device looks promising

"One of my concerns is who

gadeets." Brooks said. "Is there

quality control, or are they just

gadgets you use at your own risk? How do you know if it

controls the quality of the

all he added using the gadgets. Pulling the gadgets into the portal would provide such employees with screen to new collaborative tools that incorporate professional features like security, Bowden said In related news, IBM also

announced its new Search Sitemap Utility portlet, which is designed to optimize portal content for search by external search engines. soft showed that its judement

Keeps Security on Back Burner Whithold Diffe has been credited

with making privacy possible in the Divital Ave. As a co-inventor of publickey cryptography, he is amone the most respected contributors to the field of computer security. In an interview with the IDG News Service. Diffie, chief security officer at Sun Microsystems Inc., talked about the state of computer secu Microsoft Corn's role in it and

privace issues

Then the PC went on the ne there were security intall that nebody thought about. How do you think Microsoft has reof over the past five years or no? I think there are two issues. I think you'll find that lots of [potential security probiems) were foreseen. I think the critical thing fiel that Micro-

Sun CSO: Endless Internet Growth attention to security, maybe

it would have had less market share. The interesting thing to me is why it's been so hard for them. I think it has to do with the problems of leases code and the legacy interface expectations of their costomers

> Do you believe that there's a sense an

ears that the beternet is not trustworthy? I think that's a well-placed misconfidence. New do yes see the state of

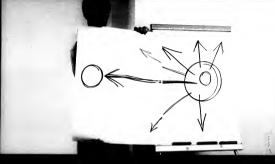
urity on the internet teday? Phishing is the security problem, at that level, that I hear the most about right now. But I certainly don't worry about the security arrangements of going to American Express.com. I'm not the least bit worried about that, partly because of the law and partly because the essential point of SSI is that the certificate costs exough money that the thieves aren't putting up a front

I conjecture that the expansion of networked communications and society's dependence on network communications is outrunning the security of that network and will continue

to do so for quite some time. What are your thoughts on internet privacy? I believe in privacy, but privacy is just one

of a number of considerations. What bothers me is that information about people is so readily available in a way not auditable to them, to organizations like ChoicePoint, who broker it around and enable other people, who are not legally constrained in what they do with it, to make decisions based on it P

McMillan is a reporter for the IDG News Service.



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GLOBALDISPATCHES

EC Critical of Microsoft Antitrust Response

Dell Opens Call Center In the Philippines



Stolen Laptop Held Staff's Personal Data

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Sixth surper via decreases has proposed a budget that would blick reduce tay benefits for the

EMC to Invest \$100M In Russia by 2010

ST PETERSONIO, RUSSIA

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lore C. Verro River en reselles

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t ompiled by Mike Bucken

Briefly Noted

plane to use IBM technology to create a new wideo search system. Under an agreement announced last week, the IBBC will use IBM's videosearch system, code-named Marvel. to their office all search service to use and the Receives and CBM of their office all search service to use and the Receives and CBM planets. The technology cad categories described to appearance as well an analyze images and video, the IBMC search.

Th

22 bidders for the government.
Next Generation National Breadhard Project. To qualify, companies
had to show that they have the shaucal resources and the skills needed
to build a network that can offer
speeds ranging from 100Mstyles comtone than 100Mstyles and connect to
all homes, schools and businesses
in Singapore by 2012.

is Japanese until has named is General Reviet Packard Japan Its. Persistent Yasayuk Hegyth, as its new chef operating officer. Hegyth was most necessity persistent of Kole. Japan Japan Service in General Review of March 1986 of Microsoft is ceremencul and enterprise business in Japan reporting to Gurren Hegyth of Microsoft is Japanese unit.

"MARTENERS LAND."

's investment arm plans to invest \$65 million (U.S.) in PowerTech Technology Inc., a Taiwanbased chip assembler that special-

Foreign Office directorate that runs first in Vision of the directorate that runs first in Vision of Vision (XZZT million XZZT million (XZZT million XZZT million XZZT million XZZT million XZZT million Million of XZT million XZZ million of XZT million XZZ million or XZZ milli

COMPUTERWORLDUK



GLORAL

FC Critical of Microsoft Antitrust Response

HE STRONG AN COMMISSION THE month reported its criticism of Microsoft Corp.'s response to a 2004. antitrust ruling, opening up the possibility of further fines for the company. Since the ruling the FC has fined Microsoft €497 million (\$652 million U.S.) and ordered it to disclose interoperability information for ressonable and nondiscriminatory terms to rival

makers of server operating systems The commission said it doesn't heliese that the information in the LGOD pages of documents Microsoft has submitted since December 2005 is worth the price the company is proposing to

charge for it. "Microsoft has spent three years and many millions of dollars to comply with the EC's decision," said Brad Smith, Microsoft's top lawyer, "We submitted a pricing proposal to the commission last August and have been crease its workforce in the country. asking for feedback on it since. We're disappointed

that this feedback is coming six months later, but we're committed to work ing hard to address the (EC issues)." In a statement, EC

Competition Commis sioner Neelie Kroes said. "Microsoft has agreed that the main basis for pricing should be whether its protocols are innovative. However, she added, "there is no sie

nificant innovation in these protocols." **BPM4 MELLER, IDG NEWS SERVICE** Stolen Lanton Held Staff's Personal Data

HE WORCESTERSHIRE County Council has confirmed that a laptop containing sensitive information on more than 16,000 of its employees has been stolen from IT vendor

The laptop, which contained employee names, addresses and national insurance and bank account details. was stolen in late February, according to a council spokeswoman. She said the data security breach "notentially offected a little over 16,000 staff."

An International IT News Dioest

The council was 'not completely sure of the level of encryption" on the stolen laptop, "but our understanding is there was security on the machine the englesseemen said

Hook, England-based Serco had the staff data because it is building a new payroll system for the county, the snokeswoman said. However she added. "that doesn't explain why they were keeping it on the lapton," Serco officials

were unavailable for comment Patrick Birch, Worcestershire council corporate services director, said the council has notified all staff members

who could be affected and has set up a IN TASH SHIESIN COMPUTERWORLD II K

Dell Opens Call Center In the Philippines THE CITY PHILIPPINS

ELL INC, this month opened its second call center in the Philippines and disclosed plans to in-The company said that GLOBAL FACT the new center, in Ouezon

City, will provide technical support and other services to Dell custom ers in the U.S. The facility includes training labs that simulate networked home and office environments. The call center will initially employ about 200 people the company said

Dell opened its first Philippine call center, in Pasay, about a year ago. About 1,400 people work there, according to the company. Dell said it plans to hire about 1,000 more people in both facili-

ties, increasing its total employment in the country to about 2,600 Philippine President Gloria Macaeagal Arroyo attended a ceremony marking the opening of the facility. During the event, Dell announced that it is donating a computer lab to Quezon City

High School.

■ MARTYN WILLIAMS, IDG NEWS SERVICE **Budget Plan Decreases Outsourcer Tax Breaks** ---

IDIA'S FEDERAL GOVERNMENT as proposed a budget that would likely reduce tax benefits for the

country's outsourcine industry In his hudget speech before the Indian parliament late last month Finance Minister P Chidamharam proposed eliminatine exemptions to

the country's minimum alternate tay (MAT) that have aided the oursourcine industry in recent wears Chidambaram also did not call for

an extension of the country's Software Technology Parks of India (STPI) export-promotion scheme which said tles outsourcing firms to tay breaks under the Indian Income Tax Act In his speech. Chidambaram did not respond to a request by the National Association of Software and Service Companies for

a 10-year extension of STPL Some executives in India's outsource ing business, including N.R. Narayana Murthy, chairman of Infosys Technologies Ltd., have said that the industry is large enough to pay taxes at the levels changed to other industries

N. Ramachandran, chief financial officer of outsourcer iGATE Global Solutions Ltd. noted that the tay changes are unlikely to affect pricing by out sourcers but said they could cut profit mareins ■ JOHN RIBEIRO, IDG NEWS SERVICE

EMC to Invest \$100M In Russia by 2010

ST. PETERSOURO, RUSOLA MC CORP. late last month announced plans to insent \$100 mil. lion (U.S.) in its Russian business organized over the next four years The biesest investment will be made in the EMC Excellence Center, a software development center being set up in St. Petersburg, according to EMC. Luc Brunet, general manager of

FMC Russia/CIS/Rultica anid that the company's business in Russia error by 50% during 2006. The Russian investment represents about 10% of the \$1 billion that FMC plans to spend in what it calls the BRIC countries - Brazil Russia, India, China - by 2000, the company said.

The EMC Excellence Center is expected to open in July. The company said it expects the center to employ about 100 workers by year's end. Employees at the center will work on developing new products and on adapting current EMC products for the Russian market, said Rona Newmark, senior vice president of EMC Excellence

Center design and commissioning. ■ OMITRIY ZHELVITSKY COMPLITERWORLD BUSSIA

Compiled by Mike Bucken

Briefly Noted

www.computerworld.com

on to use ISM tech to a new wid or on agreement armounces à. the SBC will use ISBFs vi trot offer a search ser ron's Web altes. The te searing content based on a

video, the SSC said D JOHN BLAU, IDG MEWS SERVICE ----The Infocurum Devolu

therity of Singapore h of in show that th

II SUMMER LEMON ING NEWS SERVICE

------Microsoft's Jane

IN MARTYN WILLIAMS

IDG NEWS SERVICE ---------Intel Corp.'s im to invest \$65 million (U.S.) in Powsey loc., a Tai ior that a B DAN BYSTERY INC NEWS SERVICE

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DON TENNANT

'Do the Right Thing'

VER LUNCH with four preeminent
Clob last Thready. I had a preview of
the coming attraction. We had so where
to go over the final logistics for presentation at Computerword's Premie100 IT Leaders Conference that would be conducted
that afternoon in a "talk show" format, with me as the
host and the four CIOs as my expense.

host and the four (The first order of business was for me to be certain that these guys knew what they were getting thermachous into

what ney were getting themselves into the spook you because the only way you because the only way we're going to make this work is for you to be as open and candid as you can possibly be." I told them. But recognize that we'll have reporters out there, and there's no telling how many people in that suddeney how a blue sound.

ing how many people in that audience bave a blog somewhere. It's a Web 2.0 world, so dun't say anything you wouldn't want to watch on YouTube tomorrow."

There wasn't much of a verbal response, but there didn't need to be. There was no antsy shifting in seats. Just nods of understanding and looks of quiet resolve that said it all.

The presentation was titled "Defining Moments to IT Leadership," and it put a glaring spetlight on these four individuals — all Computerworld Premier 100 IT Leaders — and how they responded when confronted with extraordinarily difficult and controversial challenges.

controversal challenges.
First up was Dale Frantz. the CIO
First up was Dale Frantz. the
LiO
Ball Frantz. the cio
Ball Frantz. the
Ball Frantz

his proprietary applications off of Windows and onto Apple's Mac OS X. If he can accomplish that, he said, there's an excellent chance he'll convert to an Apple platform. My next guest was Louis Gutierrez, who Shored a turbulent nine

months last year as CIO

of the state of Massa.

chusetts. True to form.

Gutierrez shied away from nothing. With characteristic calm and eloquence, he discussed the state legislature's failure to give him the funding he needed to do his job, and his resultant resignation. And, like Frantz, he spoke definantly of his relationship with a

ignation. And, like Frantz, he spoke defiantly of his relationship with a relentless Microsoft — io this case, a lubbying apparatus that was determined to bend Massachusetts to its

will on office document standards. Third up was Clark Kelso, CIO of the state of California, who described a journey that Degan in 2002, when he was called in to clean up the mess made by an interpt, scandar jugient Tregime that had alienated that start's highsitute: Like Gutterree, he refused to allow a temperatural pofitical climate to cloud his vision for what he felt he needed to accomplish. Finally, the her year was raken highly control of the control of the highly cloud the control of the highly cloud highly highl

Darryl Lemecha, CIO at Choice Foint the personal information brokering company that last year was fined 50 million by the Federal Trade Commission for a massive data security breach. Amstringly, that breach was the catalyst for re-engineering the company into one that's now bishly regarded for its data priyacy

organy regarded for its data privacy and security best practices. When I asked Lemecha if he had any advice for TJK, the clothing retailer whose data security breach is still making headlines, his response summed up, in four words, the message that all four of my guests had conveyed: "Do the right thing."

There is no creater hallmark of an

There is no greater nationark of an IT leader than the courage it takes to follow that advice.

Don Towart



BRUCE A. STEWART

Go Beyond Normal IT

HEN NICHOLAS CARR
put forward his
argument in the Harward
Business Review (and in his subsegent book and blog), he set of a
ferstorm of controversy in the III recarris point has been made by organiation after organization. Whenever
a business problem in par forward, IT v

This response has become so dependable that those on the boutiness side often investigate packages before tringing problems to us, lantead of rising to the challenger, we work within the limited parameters for change that we are given. The roose of being "dead dog ordinary" tightens just a listle more. There is little difference between the TP exist.

organization offering another "commodity" job and some collection of outside service providers doing it. This isn't a screed

This isn't a screed against packages, be they software, software services or business process outsourcing. Taking anything other than the

sourcing. Taking anything other than the standard approach for things like accounts payable and payroll hasn't demonstrated enough value to be worthwhile. For stock

business processes, packages are the natural answer, and for much of an organization's daily transactional workload, "stock standard" ought to be the narro.

dard" ought to be the norm. But what is IT doing to help the company compete — to maintain and seyond its market inch and leverage is brand identify to create new basiness based identify to create new basiness based bit in moring beyond the mit of standard processes to contribue to product innovation, facilitate exemplary customer experiences and implement integration with suppliera and sourcing partners? Does it ever require that a standard process be made unique? Failing to take nuch tars with level or company valuesable to attack from competitors that so howard the stock standard sonnouches Then a core strategy of heing operationally excellent at the basics decemenates as the company suffers through repeated rounds of de-optimization for short-term cash extraction. We call these "cutbacks" and "cost-constraint programs," After a while, the CEO wonders - again - why the business

ien't growing The last pieces of the technology ouzzle cannot be hought: they must be built Parkage wandors can afford to develop packages only when the definition of the problem is agreed upon to the extent that there will be a market large enough to pay for the creation. support and extension of the product. Business process outsourcers depend on standardized processes so that the same team, using the same technoloplac our carrios multiple eligate. Co in goes. Yes, the work of IT remains automating the processes that keen the organization running, but there's a need for real creative work - whether it's designing new business models, new products and services, or new ways of working - that can create new paths for growth. We need an IT that goes beyond the stock and the standard to true innovation, and that calls for an IT organization able to create a demand for this kind of change

If you accept this challenge, you can expect to work in an covironn that's far removed from the predictable daily workloads of package implementation, surrounded by consultants and integrators who have done it all before. The creative process is likely to he iterative and rapid, and if the early results are favorable, you can expect to go through a quick expansion. Will your IT organization lead, or will your usiness struggle? Whatever your role in IT, you can be a breath of fresh sir and lead the way 8

MICHAEL H. HUGOS

Framework For Business Analysts

ROFESSIONS, by definition, rely on a body of theoretical and practical knowledge, often built up over emerations. That body of shared knowledge is the foundation that allows a profession's practitioners to conferent the former than feed with a common language. By applying theory and experience, they can work topether to develop new best practices as chal-

Are business analysts members of a profession, like architecture, engineering medicine and law that relies on carefully constructed frameworks that provide a basis for common understanding? Even some business analyses would besitete to make such a claim But the body of shared knowledge necessary for such a framework evises. In fact. I've used the concise framework

in the chart below for years.

lenges grise

Listed in those nine boxes are all the theories and practices I have drawn upon when analyzing situations and designing effective responses, and all the time-tested metrics I have used to measure manage and improve any situation I confront. By connecting with others who use the wealth of knowledge represented by this grid, I keep current with best practices as they emerge.

There is a lot packed into this con-

cise framework: the car. egories are a way to help me absorb it in manageable chunks. But each box conteins more than mass the eve. I associate particular neonle with the boxes that cover the areas where they have made significant con-

OPINION

tributions That first box, information theory, makes me think of Claude Shannon While working at Bell Labs in the 1930s, he defined what data actually is and developed the math that describes

how to manipulate data and transport it. Cybernetics is the realm of Norbert Wiener, He coined the term and in 1948 wrote a book by that name in which he defined cubernatics as the

theory of control and communication in mechanical electrical and living

Total Quality Management brings to mind Kaoru Ishikawa. He was a university professor instrumental in the formulation of

TOM techniques and played a central role in introducios these methods to Ispanese companies. Companies like Toyota used these

ate the operating practices factoring (which mere its own box in my framework).

There are a lot more neonle that this feame. work makes me think of and whom you might find interesting You might want to take a little time and find out where in the framework Stafford Beer Ludwig von Bertalanffy. W. Edwards Deming, Lay Forrester and Peter Senso fit in Your research and what you know about other noonle involved in these theories should lead you to some useful insights the next time you're confront-

ed with a complex project

Certainly by ensending myself in these theories and practices. I have been able to use this framework to analyze and make sense of complex situations and then desum effective solutions without having to delve into every detail of the situation before me. It's just the sort of thing that architects. engineers, doctors and lawyers do so they can operate effectively in the face of what is otherwise an incomprehensible flood of ever-changing details.

WANT OUR OPINION? More columnsts, and links to archives of creve

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Memory Hog

SERS WHO prefer Salari as a browser should keep an eve on its memory usage, after a day or two, it will grow to 100MB relox Loses Browser Share. lari Gains," Computerworld.com Feb. 21). Firefox's memory usage is well controlled.

Affinitus Colif

When Things Got Bad in the IT World HIRES OUT had for IT when companies started outsourcing and, especially, offshoring

corporate IT work after the Y2k nonewent ("IT. Wa Have a Probiemi Part II," Management, Jan. 29) Programmers were being compared to factory laborers and

seen as the bottom of the soft ware chain, producing low-level work. This misconception has

weekend - to meet unrealistic

Meanwhile constant cost

cutting means less training and

smaller stalls because of down-

sizing. And besides being experts

on the technical field. IT pros are

business. Business people don't

have to be proficient in IT, though

It seems that the denigration of

so IT ones have double the work

supected to be proficient in the

rinadines

IT is happening only in the devel goed world, though IT is very well respected in India China Russia taken root, and IT as a whole now and other less developed counhas a very bad regulation. tries. Eventually, these countries. Red the truth is that most I'll showbbow IT som sket line professionals work at least 50 Culture Rhead hours per week while getting gold Senior technical consultant for 40. They are expected to do Atlanto whatever it takes to get the work done - working late and over the

Consensus vs. the Scientific Method MARK HALL'S Feb. 19 edito

plobal warrying and IT makes a fatal logical flaw. He wrote. "The scientific consensus is that the release of greenhouse passes through the consumption of fossil fuels causes global warming. However a considerous does not equate to fact. When scientists can use the screntific method

to prove that global warming is caused by humans, then I will accont it as fact A consensus of scientists is no

more fact than a consensus of politicians, Lagree that (T should consider environmental impact. but we must remain rooted in fact and ant consensus Non-Rive

IT support manager. Cardtronics Inc., Houston

COMPLETERWORK D welcomes. Fickle letters editor, Computer

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STRATEGIES TACTICS

Inside 03.12.07

Rohm and Haas Co. used an IT service catalog and five guiding principles to achieve a breakthrough in IT customer service. IT Mentor Bob Hilsdon explains how the ITH caralog PARE 28 tool can work for you

PAGE 30

-

e: Bart Perkins

PAGE 34

Offshoring

No longer just a tactical search for cheap commodity work, it's increasingly about strategic sourcing.

BY MARY BRANDEL



IBM. -01-01-01-01-0



_INFRASTRUCTURE_LOG

_DAY 51: The time and money it takes to manage these servers—not to mention the energy we're wasting—is out of control. No're literolly pouring money into them: 590. 5100x—they even take evens.

_Whoever came up with "add on app, add a server" forgot to "add on ATM."

.DAY 53: I've taken back control with an IBM BladeCenter* with Dual-Core Intel* Read* processor technology. Its IBM Director gives us a single point of control, so se can centrally manage routine tasks, and IBM PomerExecutive* collibrates cooling and system processing to optimize power usage. Helpina save the ard money.

_I am Ned. I am so maney.



IBM.COM/TAKEBACKCONTROL/BLADE

Continued from page 23

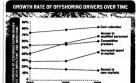
of a broader atrategic sourcing strategy, rather than in a textical new off way. "The 'not built here' mentality has really dissipated," asys Danny Siegel, director of data warehousing and business inelligence technologies at New York based Phzer Inc., which uses serrol oursourcing providers. "With budgers durinding and requirements growing to improve quality and timefuness, ment to really rethink how they source for technology remotes."

It's reached the point, Siegel says,
"that I couldn't care less if the people
come from Chennal, Shanghai, Poland
or the Ukraine — that's irrelevant. As
long as it's a high-performance work
team that gets the job done at a commetitive news."

Siegel considers it the job of the service provider — whether based in the U.S. or India — to provide him with the best and the brightest, whether onshore or offshore, "and that means slobal sourcine" be seen

Changing the Name

Indeed, terms like global sourcing and strategie sourcing are starting to replace offshoring for companies striving to fit their use of overseas talent into their overall business strategies. And offshoring is no longer solely about cost. For instance, Siegel has occasionally requested that his outsourcer



SURVEY YEAR

assign specific developers from other countries to a given project because he's gotten to know and respect their work on other projects. "These are people who came up through the ranks and ended up heig ped satas with functional experience," he says. "Seven years ago, that never would have bejoned it took time for them to obtain the institutional knowlecker and, bused

on that, move upstream."

Tim McCabe, director of IT strategic sourcing at Delphi Corp., has also moved beyond cost-only goals when

selecting a services provider. In fact, this tile is a new one for Troy Mich-based Delphi. "It reflects a change of approach from sourcing as a teactical commodity to a much more leveraged global perspective," he says. "It's about the best way to get business done, whether it's offshoring, outsourcing, resourcing or insourcing, as well as a broader view than but." What's the

lowest price that I can pay for a service or commodity? *

Delphi's strategic sourcing approach does not explicitly require an offshore footprint, McCahe says. At times, he might contract with a domestic outsourcer that chooses to use offshore workers as part of its service. Other times, he explicitly chooses an offshore rovider but for respons beyond cost

For instance, Delphi has contracted with Tata Consultancy Services Ltd. (TCS) in Mumbai. India to handle its elohal SAP development, deployment and support, but the goal wasn't merely to tan into the SAP talent available there for a competitive price. It was also to autimias timo same adventages particularly when it came to support. ing clients in the Asia-Pacific region. But the TCS contract does not cover plobal application development and maintenance. In another strategic move. Delphi has moved away from multivear agreements with single providers. Instead, like other large companies, it's adopting a more technology-

nies, it's adopting a more technologydriven sourcing strategy that takes advantage of the core competencies of several providers.

"We can do that more readily than five or six years ago because suppliers are getting the message that we want

are getting the message that we want three or four and we want them to collaborate." McCabe says. Moreover, there are times when he wouldn't want the outsourcine staff

wouldn't want the outsourcing staff to be physically removed from his orshore client base. "When you have an application with high-touch requirements, physical presence becomes

Skills Play Catch-up

Nº MIS TWINE YEARS of experience with offshoring, David Baruch has contracted with how different service providers, and he's in the process of geneting up to switch to a third. As CO of Equity Offsich, he has found that these frequent changes have halped him develop what is increasingly considered an important competency: the ability to tuccessfully find, engage and manage global

"Clerifs are becoming more sophisticated and thinking about (autocarcing) more proactively," says Gray Rinchhorler, a partner at Rindand & Ellis LP in Chicago. For instance, he says, they're creating offices of strategic ficers, sometimes as an outgrowth of the procurement function. "They're seeking opportunities for improving processes, eflacting change and getting a better overall state." "Exhibitation for the processes, and the processes."

As part of this evolution, organizations such as the International Association of Outsourcing Professionals new award certification to outsourcing professionals who can demonstrate skills in aligning outsourcing with corporate straining, identifying the right opportunities for outsourcina, and structure.

Other relevant skills include the ability to implement processes for offshoring, sustain

metrics, and ensure that everyone sticks to contract terms, says Danny Siegel, director of data werehousing and business intelligence inchrologies at Plase.

The starting to see a desire for effective vendor management – the ability to broker these deals and make them fly," he says. "If you can lind vendors with the right resource – and that don't bother you with prographic concerns the immigration issues – that is a

personal competence."

According to Gurtner, there are six requirements for successfully managing an

outsourcing relationship:

• Settling overall objectives, priorities, policies and procedures that make the

Widentifying capabilities needed for the uniness, and selecting appropriate service routers.

Building and maintaining disciplines

cooperation among all the service provide and the company.

• Controlling commercial amangement

like funding, pricing and billing, as well as the ownership of assets and intellectual property.

** Monitoring the performence of all the stakeholders (not just service providers)

Ensuring reguler reporting, capturi lessons learned and providing the Information needed for short-term corrections are

long-term enhancements.
Right now, such competencies are hard to find. According to a recent survey of 530 U.S. and European companies by Date University and computations floor Alle-

Date University and consultancy Boar Aller Hamilton, one of the most significant challanges of offshoring for COs is the lack of people with the skills to manage an offshore worklone.

*Other, IT managers are too technical of do not have appropriate multicultural and multinational experience to successfully

manage offshore employees," says Vinay Couts, a principal at Boor Allen. That's why IT professionals with these

skills will find themselves in increasing demand. As Siegel says. The technology management folks are becoming the real

This equation."
- MARY REAMON

critical and in that case we understood the price difference and are willing to nay for that " he says

If the old offshoring model could be represented as a one-way arrow pointine from the U.S. to a lower-cost overseas location, the new global sourcine model has arrows that form a compley web. In the new model, work can flow from a client in the U.S. to an Indian company that passes alone a codine nince of the project to a Chinese subcontractor and the consultative niece to its employees in the LLS Or a LLS provider might divide the work among a team of U.S.-born workers, offshore coders and foreign employees with deep functional experience.

All this enes to show that the wrone way to start any project is by forming on where the work will be done, says Lorrie Scandino, an analyst at Gartner Inc. "If you're trying to figure out where to do things, that's backwards." she says. "Too many executives come

at this by saving, 'Let's offshore.' A more strategic approach, Scardino cave is to mose through a series of constitute that begins not with buleau but with "why." Why are you outsourcing in the first

TRENDS

, according to IDC.

Most offshore spending by

plication management and

systems integration

U.S. companies will be on any

The worldwide market for

offshore IT services will

place? What results are you expecting to gain from it? Then it makes sense to define the scope of what you intend to outsource. Scardino suggests. For instance, are you going to outsource your entire ERP platform, or

just upgrades and patches? Next comes

"who," Scarding says. That requires looking at various delivery models, such as utility computing and on-site arrangements Only when you know which providers are best at what you want done should you start exploring where the work should be done, she says, "Imagine if you decided, 'We're going to do all our application development in India." she says. "What are you going to do in three years, when India is just as expensive as San Antonio, Texas, which is cropping up as low-cost location in the U.S.? If your whole strategy is just

offshoring to India, that's a very weak strategy. Another sign of offshoring's growing maturity is the number of companies that claim they're engaging in it not for savines but to find qualified personnel.

In fact, in a recent survey of \$30 U.S. and Furonean companies by Duke University and management consultancy Booz Allen Hamilton Inc., nearly three quarters of the communication seek offshore talent for high-end functions such as product development or research and development reported that access to qualified personnel is the most important reason they do so

"There simply aren't enough highskilled engineering and science graduates available in the U.S. to meet the demand for these resources " save Vinay Couto, an analyst at Booz Allen. Employers complain that the quality and skills of the available graduate pool within the U.S. is not sufficient to meet the high standards required for functions such as product development, engineering, design and other inneration-centered functions

Finding domestic talent isn't so difficult on a "onesies-twosies" basis socording to McCabe, but "if you're looking for a large concentration of skills to handle a lot of work, it's not always here onshore." Or at least you won't find it without putting in some effort. "If I need a lot of . Net programmers.

it's anxious on sall on offshore provider." seroes David Baruch, CIO at Foulty Office Prop. erties Trust, one of the largest owners and managers of office buildings in the U.S.

Barnch also plications, particularly custom arrees with another of the study's application development, apfindings: Compa nies are moving past external factors such as politi-

cal backlash to confront internal ones. such as the managerial and organizational changes they have to make to take advantage of offshoring Chicago-based Equity Office started outsourcing three years ago when Baruch needed to supplement his relatively small staff of 100 people to com plete a hig project. He signed on with a U.S.-based provider that used offshore staff for the project. Baruch has contimued to expand his use of overseas

resources, albeit with a different provider. Today, offshore personnel account for about 20% of his stuff's neak work output, including maintenance and higher-level project work. The first challenge of the transition was getting his own staffers to accept the offshore model. "While it was pain-

A Rising Tide of xpertise

A MAJOR REASON why companies are able to approach offshoring more studies cally is that offshorers are estab salves as full-fledged multinational operations with ever-growing areas of expertise that may soon med those of their U.S. competitors. says Paul Roshing, an analyst at Formster

He also a recent \$140 million, five year comprehensive outsaucting some reen Tata Consultancy Services and Ecuador's largest private bank, Banco Del Pichincha CA in which TCS will enten 500 of the bank's current employees. They will be

sugmented by TCS's own business process surcing center in Chile, which was enhed through an acquestion That's exactly the sweet spot of the BMs. EDSe and HPs of the world "Roebsto says. Tive years ago, it never would have happened." While U.S.-based providers have the edge in areas such as oncho delivery, alignment with vertical markets and allative selling, indeen providers are no hard to cuprome they weekness

In those areas, he points out And as that happens, it's important for compenies to rethink what offshoring mass Roselino sans. "It's starting to green having the work done where if can be done best, belong ing price and service components," he saw. There are still customers who just want to rud costs and who think that he hordiso work to Inde they'll do that - and they will. But they're not leveraging the complete value of that relationship

Gartner analyst Lorrie Scardino agrees that inde-based providers have much to offer in terms of process standardization, portiolo ntion, automation and process met rity These capabilities will play an increaimportant role as inclen labor costs rise. When it was just a low-cost labor source. that's all companies were interested in replicating what they had with people who cost less," she says. "But if they leverage this other potential, they'll see the results

contra on un *

and sustained advantage, especially as labs - MARY GRANDET

ful in the short term, they realized there were benefits in the long term because it was work they didn't necessarily want to do." Barriet says. The second part was petting IT staffers to pass along required knowledge to the offshore provider and "having them understand what we're trying to do from

thousands of miles away," he says. Today, Baruch sees the relationship more as co-sourcing than offshoring. "They have a certain set of responsihilities in the development process, we have a certain set, and we measure each other to be sure we're each holding up our end of the bargain," he explains

Baruch says that low cost is just one benefit he gets from tapping overseas talent. It also gives him variable staffing capacity, which allows him to maintain a stable workforce with deep business skills. Outsourcing gives him scheduling flexibility, so he can ramp a project up or down as peeded. In addition, it enables marginal projects

to achieve neturns on investment that they otherwise never would. "For proects that people would have histocally passed on, there's now value in doing them because it takes a third of the cost to do it " he says Over time, Baruch can see other fice currently outsources eventually moving to an offshore provider. "It's

all a question of what you want to outsource how you want it to be don and the value derived from doing it? he says. "Then you can talk about where the work lends itself to being performed - onshore or offshore, with high-priced or low-priced talent." As others with offsboring experience gain this type of understanding. Scardino predicts, "offshoring will be recognized pretty universally as a destination, not a strategy."

Brandel is a Computerworld contributine writer in Newton, Mass, Contact her at marybrandel@verizon.net.

World-class Service (s Within

The IT sen, ice catalo





set a target goal of a 3.8 customer satisfaction entire out of a possible 4. We conducted employee express to track our progress, and our service ratines steadily climbed from a score of 2.7 to 3.5 by late 2004. But after that, we were stuck at 3.5 for pearly two years, Our best efforts didn't boost the satisfaction rating To learn what was holding us back, we conducted sessions with employees and business executives throughout the corporation and around the world.

Two key issues came to the forefront-There were too many channels for com with II. Whether a new employee wanted wireles

access for a computer or the business required the IT infrastructure for a new manufacturing plant. customers were often passed around from group to group when they requested IT services, and they were tired of it. They wanted a "one-stop shop

There was a lack of transparency into IT service de ers. Our corporation has more than 15,000 employees at more than 150 locations around the world, with about 250,000 FT-related requests annually. With this volume, it was easy to lose track of what we wer doing and whether we were spending our time on the right things. Our customers were fourtested that it took so long for us to meet their needs, and they wanted to be able to check the status of their requests

We had to fix these two basic problems to become a world-class service organization. We needed a clearly articulated catalog of what IT was able to do for the business, a single place for customers to make IT requests and a mechanism for tracking the timely folfillment of those requests

We found that central intake mechanism in the IT service catalog, a concept that has been advanced by the IT Infrastructure Library (ITIL) and other IT process frameworks. The service catalog is a rela-

Watch Out for These Misstens

In our service catalog, we've defined a broad rang of operational services, such as help desk services for our workforce; infrastructure services, including the provisioning of new servers for application hostingand transformational services to develop new projects that drive the business forward. By managing all IT requests through this one point of interaction, we can improve end-to-end visibility, for everything from large development projects to day-to-day services.

4. Fecus on the customer experience, including visible into rement status. The service catalog can effectively serve as a marketing, sales and relationship manage ment mechanism for the IT organization. Our goal was to make it as easy to use and customer-focused as possible. IT services are clearly defined and there's a "shopping cart" for ordering services, pro viding a familiar interface based on online retail

cataloes We can now provide updates on the status of a customer's order throughout the fulfillment process. And

to ensure that we're continuing to meet customer needs we ask users to complete a short survey with every reour extenieted to and fulfilled by the IT organization 5. Emerge consistent and recentable IT service delivery. Bu communicating a standard set of services to our customers, we've been able to minimize one-off requests. enabling more repeatable and predictable fulfillment

processes. And with transparency into the end-to-end cycle for every requested service, we can identify buttlenecks and provide more consistent service delivery We monitor the process and track what it takes to fulfill each request, including associated costs. We make sure that the work requested is done by the most appropriate resources. With this newfound vis ibility and accountability, we are able to consistently meet customer expectations and continue to improve

CUSTOMERS WERE OFTEN PASSED AROUND FROM GROUP TO GROUP WHEN THEY REQUESTED IT SERVICES, AND THEY WERE TIRED OF IT.

that enables IT to categorize and publish what it does. The catalog also offers customers a one-stop shop for requesting and tracking IT services. For us, it's the foundation for moving to a more service-centric IT model and delivering world-class service. By adopting and implementing an IT service catalog,

we've been able to better align IT services with business peeds. With a clearly defined set of standardized services, we can improve the reneatability and transparency of IT service delivery. And with more visibility to the demand for IT services, we can better manage the growing demand for IT services from the business So, how did we do it? By following these five prin-

ciples, we were able to quickly deploy a service catalog and improve the relationship between IT and the ness across our global organization: 1. Define standardized services from the bus

pective. The business doesn't know what IT does. By defining and publishing our services - using business terminology like "order to cash" and "new employee services," not technical language like "DASD storage" - we've been able to clearly articulate what IT does for the business. Using this language has also he a service-centric organization 2. Enable customers to use the service catalog them salves. We knew that employees were looking for a self-service, one-stop shop for requesting services

and tracking requests. We needed more than just a static list of services; our service catalog had to provide us with a means of interacting with our custom ees, thus making it easy for them to work with us.

So each service within the catalog includes the equivalent of an "order now" button. Linked to our fulfillment systems on the back end, this button starts the process of provisioning and delivering the service, whether it's providing a new computer for a hiring manager or an upgrade to the accountspayable system for a finance mana-

3. Capture all IT demand, with the service catalog as the cortrai intake point. To ensure that our IT budget is focused on the right oriorities for the business, we needed more control over the demand for IT services. Our service catalog had to be more than just a Web from end to the help desk - a place to submit requests for help when the printer is jammed. We needed it to be the one intake mechanism for all the work we do for the business.

upon our service delivery performance During the first three months after we launched our service catalog, we processed approximately 50,000 requests and received 10,000 customer satisfaction surveys - a 21% response rate. We received an average score of 3.72 out of 4. Since going live in May 2006, we have continued to make progress and recently crossed our target satisfaction rating of 3.8

- attaining our benchmark for world-class service. This achievement represents a key strategic win for our IT department and an essential first sten for realizing the potential of IT to drive business value. By demonstrating differentiated service to our custom ers, we have improved how they perceive IT within the business, and they have come to view the IT group as a trusted and credible partner. Now that we have established ourselves as a world-class service organization in the eyes of our customers, we can work together more effectively to advance the business through technology innovation.

Hiladon is IT customer service director at Robm and Haas Co., a maker of chemicals, adhesives and sealauts. Contact him at BHiladonillyohmhaas.com.

World-c Service With Rea

The IT service catalog can get you there.

CHIEVING world-class IT service delivery is not just about operational efficiency. In the midst of increasing technologycommodification, internal IT departments must provide service than's better than what customers expect. At Rotum and Hass Co., we recognized this challenge for years ago and set out to dif-

ferentiate our IT department as a world-class service organization. Our goal was to partner with the busi-

IT MENTOR

As a benchmark for world-class service, we





set a target road of a 18 customer satisfaction entire out of a possible 4. We conducted employee surveys to track our progress, and our service ratings steadily climbed from a score of 2.7 to 3.5 by late 2004. But after that, we were stuck at 3.5 for nearly two years. Our best efforts didn't boost the satisfaction estine To learn what was holding as back, we conducted sessions with employees and business executives throughout the corporation and around the world

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Watch Out for These Missteps

ENOLESS DOCUMENTATION, Don't set into the trap of greating spreadsheets and docu ments that list every service and all the technical details. This approach leads to a static service catalog that no one will ever read or one From the outset, approach this like Amazon.com, not the old namer Seam cutains

BIO-BANG APPROACH, Don't take on too much all at once Start gradually with the most commonly used IT services to make an extracti ate impact. Then extend the service cetalog to application-related services. Inchrigol infrastrur-

time services and project services. CUSTOM DEVELOPMENT Don't by to re-

invent the wheel with custom development. The service catalog isn't something you can add creto your help desk or develop with a workflow tool. To ensure success and rapid deployment,

leverage an automated software application and preparisoned content designed for this purpose THE AYS. A service catalog can provide the comeratore for a service-centric model and world-class IT service delivery. Your outlome

are demanding improved IT service today, you can't affired to wait. Get started now

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Hilsdon is IT customer service director at Rohm and Haas Co., a maker of chemicals, adhesives and sealauts. Contact him at RHilsdon@rohmhans.com

B VEARS the name of the game in supercomputing has been raw speed, with hardware and software designers striving to boost the number of instructions per second - FLOPS - that could be

crunched Gigaffons computers gave way to teraflops machines, which are now yielding to petaflors models - those able to execute I quadrillion computations per second.

But those performance ratings are misleading, because they ignore a hove portion of the time required to solve a problem with these multiprocessor commuters - the bours woods or asses were it can take for software designers to fornumber a solution and for non-

That's why the Defense Advanced Research Projects Agency in 2002 changed the name of its Hugh Performance Computing Systems program to High Productivity Computing Systems (HPCS), DARPA huned that its contractors -Cray Inc., IBM and Sun Microsystems Inc. - could come up with programming languages and tools to improve software development productivity tenfold

Sun recently lost its bid to go to the next phase of the DARPA ich but that hasn't stopped it from foreing abead with its HPCS programming language. called Fortress. In January, Sun released an early version of a Fortress interpreter. Similarly Cray and IBM have released their own first-draft implemen-/ tations of new languages.

The three languages, all available as open-source soft ware differ substantially when it comes to details, but they have this much in common They are intended to boost programmer productiv-

ity by a factor of 10 or more while running at least as ef-Sciently as existing languages such as Fortran and C

They are aimed at a wide range of multiprocessor computers and clusters, from the "netascale" behemoths at national laboratories to the multicore processors now appearing on desktops. Similarly, they

Three new programming languages seek to speed up the development of supercomputer applications.

A MIGHTY PORTRESS

en paralet a Sun res # It ernolous "work steeling." If an ar ich Bene

METE, THE RECT CO. OF EXCELLENCE IN THIS SEASON, IN PAST OF the MACROTHER THAT IS THROUGH TH are intended for use in at least some mainstream, businesspriented applications, not just

in science and engineering They try to make it easier for programmers to exploit the various levels of parallelism in application software threads. multicores, multierpoyssors

and distributed clusters. They employ techniques to relieve programmers of work and beln them sould onportunities for coding errors.

For example, all use a technique called "type-inference," so programmers don't bave to specify the type of every

variable, which is tedious and error-prone. And they use techniques for synchronizing onerations without locking, so that common problems such as deadlocking are avoided. John Mellor-Crummey, a

at Rice I howersity relates the productivity goal of the three languages, noting "Programmine of parallel systems is much too hard today."

But he says it won't he easy to evolve the nascent languages - which now run on single. shared-memory systems - to run efficiently on big, distributed-memory parallel systems. "Until then these languages won't not much streamon? Mellor-Crummey says

Fric Allen a co-leader of the Fortress project at Sun Labs. says the language is ideally ruited for relatively static environments. But applications that do a lot of dynamic code-load. ing or Web accessing would probably still be coded in lava. he adds. He says a full-function Fortress compiler will be develoned and will include ontimi-

varion features that have never existed in a language before (see diagram). Like Fortress, Cray's Chapel is a brand-new language. A few alpha users are working withan early Chapel compiler for serial code, but a productiongrade compiler for parallel

codes is several years away. according to Chief Technology Officer Steve Scott Me save Cray is also developing debugging and performance-analysis tools that, unlike existing tools, will be able to scale up to systems with I million processors Scott says Chapel will be

well suited for machines with lose communications overhead sclobally addressable memory and many possible parallel threads of execution. He says the most important advance in Chapel is its separation of algorithm specification from machine-dependent structural considerations. That makes it possible for programmers first to code and debug algorithms in relatively simple programs, then later specify how the data is to be laid out in the machine for the most efficient access.

IBM's entry, code-named X10, is a parallel, distributed. object oriented language developed as an expension of lava It is designed for systems built out of multicore symmetric multiprocessing chips

- such as IBM's Power processors - interconnected in scalable cluster configurations XIO takes the advantages of object orientation in two for serial code and adds language constructs for parallel and distributed processing, says Vijay Saraswat, a researcher at IRM. The early version of X10 simply translates X10 code into lava but a full-function optimizing compiler will be

available to meet DARPA's 2010 deadline he says DARDA execute has "no plan to pick a winner amone the new languages, but it clearly hopes that at least one of them will be a commercial success And, as multicore processor chips become ubiquitous, that would be a welcome outcome, says Mellor-Crummey.

What we are seeing," be savs, "is not a gradual shift but a caraclasmic shift from the soquential world to one in which every processor is parallel. In a small number of years, if your language does not support parallelism, that language will just whither and die."

NEVER ENOUGH



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OR YEARS, the name of the game in super-computing has been raw speed, with hardware and software designers striving to boost the ounber of instructions per second — FLOPS — that could be crunched. Gigaflops computers gave way to teradiops machines, which are now yielding to petaflops models — those she to execute I quadrillion comeutations are second.

But those performance ratings are misleading, because they ignore a huge portion of the time required to solve a problem with these multiprocessor computers — the hours, weeks or even years it can take for software designers to formulate a solution and for programmers to code and test it.

That's why the Defense Advanced Research Projects Agency in 2002 changed the name of its High Performance Computing Systems program to High Productivity Computing Systems (HPCSs) DARPA hoped that its contractors—Cray Inc., IBM and Sun Microsystems (HPCSs) DARPA hoped that its contractors—and tools to improve software development productivity tertifield.

Sun recently lost its bid to go to the next phase of the DARPA, job, but that heart stopped it from forging abead with its HYCS programming language, called Fortress. In Jamarry, Sun released an early version of a Fortress interpretex. Similarly, Cray and IBM bure released their own first-draft implementations of one valence and their constitutions of the valence are the statement of the programming language.

The three languages, all available as open-source soft-ware, differ substantially wheo it comes to details, but they have this much in common:

They are intended to

boost programmer productivlty by a factor of 10 or more while running at least as efficiently as existing languages such as Fortran and C.

They are aimed at a wide

such as Fortran and C.

They are aimed at a wide range of multiprocessor computers and clusters, from the "petascale" behemoth a tra-tional laboratories to the multi-core processors now appearing on desktops. Similarly, they



Three new programming languages seek to speed up the development of supercomputer applications.

A MIGHTY PO



are intended for use in at least some mainstream, businessoriented applications, not just in science and engineering.

They try to make it easier for programmers to exploit the various levels of parallelism in application software threads, multicores, multiprocessors

and distributed clusters.

They employ techniques to relieve programmers of work and belp them avoid opportuoities for coding errors. For example, all use a technique called "type-inference," so programmers doo't have to specify the type of every

variable, which is tedious and error-prone. And they use techniques for synchronizing operations without locking, so that common problems such as deadlocking are avoided.

John Mellor-Crummey, a computer science professor at Rice University, saluees the productivity goal of the three languages, noting, "Programming of parallel systems is much too hard today."

But he says it won't be easy to evolve the nascent languagees — which now run on single, shared-memory systems — to run efficiently on hig, distributed-memory parallel system. "Until then, these languages won't see much attention," Mellor-Crummey says.

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Like Fortress, Cray's Chapel is a brand-new language. A few alpha users are working with an early Chapel compiler for serial code, but a productiongrade compiler for parallel codes is several years away, according to Chief Technology Officer Sew Sout He saws

Cray is also developing debugging and performance-analysis tools that, unlike existing tools, will be able to scale up to systems with 1 million processors. Scott says Chapel will be well suited for machines with low communications overhead.

tems with I million processors. Sort says Chapel will be well suited for machine with I how communications overhead, globally addressable memory threads of accustion. He says the most important advance in Chapel is its separation of algorithm specification from machine-dependent structural considerations. That makes it possible for programmers fars to code and debug algorithms in relatively shough programmers in a relatively shough programmer in the communication of the communication of

IRM's entry code-named X10, is a parallel, distributed object-oriented language developed as an extension of lava. It is designed for systems built out of multicore sym metric multiprocessing chips - such as IBM's Power processors - interconnected in scalable cluster configurations. X10 rokes the advantages of object orientation in Java for serial code and adds language constructs for parallel and distributed processing, says Vijay Saraswat, a researcher at IRM. The early version of X10 simply translates X10 code into lava, but a full-function optimizing compiler will be swailable to meet DAPPAY 2010 deadline, he says. DARPA says it has "no plan to pick a winner among the new languages, but it clearly hones that at least one of them

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Keeping People

When a Go-to Guy Takes a Vacation

You should never rely on one person so much that he becomes a single point of failure But sometimes, you must, By Mathias Thurman

M STIRL MARK OF SHIP COR. relate when I say that a company with a single point of failure is primed for disaster, Sadly, there's one

in my department My senior security engineer is the go-to person for any thing to do with finewalls, the virtual private network and certain other critical aspects of our security infrastructure. There's no one else. That makes me uncomfortable, but

when I have brought it to the attention of upper manage ment. Dec been told that there is just no budget for

more engineers. So, how about cross-training one or more of the network enelneers to administer the firewalls and VPN concentrators? doesn't bave enough people to handle network-related work. let alone the added burden of firewall, VPN and SecuriD administration

Working Without a Net

Therefore, although I know the danger of relying on one nervon to maintain all knowloder about any aspect of my have my very own single point of failure. Naturally, a single point of failure can't work all the time, but my yay has been working his tail off for the past six months. When enough was finally enough, he asked to take a couple of days off to he with his family. I checked the calendar for upcoming changes to the infrastructure that might need his attention. and the coast looked clear. I let

him take three days off. (Ac-

trustly. Designed more position to charge him vacation time: he works so hard that I gave him the days as comp time.) On Wednesday, I received the Kest call. The manager of our mobility project needed a

VPN set up between us and a service provider. This project enables our field service engineers to use Black Berry smart phones to access the customer relationship management application on the internal network Not surpris-

ingly, the setup was needed immediately Time to roll up my sleeves and pet to work. Dec had hands on experi-

ence at different points in my career, but I hadn't touched a Unix console or a firewall in at least a year. As a manager, I spend most of my time on project management budget issues, personnel problems. policy writing and attending meetings. I simply don't have time for hands-on operational things and I'm a bit rooty But with my single point of failure unavailable, I had to make

time, rusty or not. I loosed into our partner VPN firewall and attempted to configure the VPN tunnel using the parameters provided by the service provider. Sounds easy enough But soon I was pulling my hair out as I tried to figure out why the

tablished. I was almost hold when I realized what the problem was: The service provider's Cisco PIX firewall and my company's luniper NetScreen firewall just don't talk the same language. This is a wellno easy fix, and it took me a

documented issue, but there's while to figure out that the solution lay with what is called "provy ID" which essentially defines which networks are to be tunneled. As soon as Leonfigured the proxy ID properly. the tunnel came up, and I was able to successfully pass the proper traffic between three servers on our internal network and several resources on our partner's network

That same day I received a call from the notwork onerations center about another VPN problem. Our suppliers were having trouble using a nortal we had set up for them to access some of our internal applications. The portal is built on a luniner SSL VPN concentrator with DSA Securi ID tokens used for two-factor authentication CA Neteerity for single sign-on, and Microsoft Active Directory for identifying authorization levels. Troubleshooting this problem took me several hours

First, I checked the SecurID loes, which indicated that the users were properly authenticating. The SSL VPN loes indicated that users' lorious had been successful. Nonetheless, we couldn't be sure that the authentication traffic was reaching all the resources; in that regard the loss weren't very meaningful.

I deployed a Sport sensor on the network segment that was running the supplier portal infrastructure. The network team configured the sensor on the proper network span ports, and I monitored the

of activity. That showed me that the SSL VPN concentrator wasn't sending properly formatted packets to the Web portal. This was odd, since the low seemed to indicate that sessions had been successful. I ended up rebooting the SSL VPN concentrator. which fixed the problem. Then Lopened up a support call: I'll let my security engineer handle this matter when he

network traffic for indications

meta back Oh, how I wish my single point of failure never needed a vacation. But my days in the trenches showed me that he certainly deserved one

Risky Business

Thank moodness my anni neer was cone for just there days Now that things have calmed down. I can attend to the management of a huge risk-assessment project. We hired a third party to conduct a risk assessment of some of our core applications, including our source-code repository. the product life-cycle management application, an EMC Documentum renository and

an application that engineers

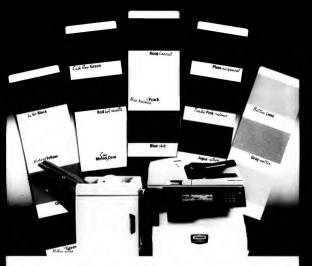
use to create designs for our

products I'm most concerned that the consultants have the right for cus and that we get the results we need. I don't want to spend upwards of \$80,000 for a glorified port-scanning exercise.1 want the consultants to spend most of their time on a structured walk-through of the applications, and I want them to do application-specific vulnerability testing. I've given them their marching orders, and they are well under way. The final report could be beloful as I try to obtain additional funds for security infrastructure and personnel 1

WHAT DO YOU THINK? This work's sound is written by a mail

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By the Numbers

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12 Things You Know About Projects but Choose to Ignore

HERE is no mystery as to why projects succeed or fail; people have been writing about effective project management for millennia. More than 2,000 years ago, Sun Tzu described how to organize a successful, highly

complex project (à military campaign) in The Art of War.

Fred Brooks' classic book. The Muthical Man, Month offers management advice targeted at running large IT projects The U.K. National Audit Office recently published an excellent guide to delivering successful IT-enabled business change (www.ngo.org.uk/ publications/nap_reports/ 06-07/060733es.htm). Over the past 10 years, virtually every major IT publication has printed articles on why large projects succeed or

Despite all the excellent advice available, more than

half of the major projects undertaken by IT departments still fail or get canceled. Stuart Orr, principal of Vision 2 Execution, reports that less than 20% of projects with an IT component are successful, with success defined as being delivered on time and on budget while meeting the original objectives.

We know what works. We just don't do it. Projects fail because people ignore the basic tenets of project success that we already know. Here are some of

the common reasons - and there are many - for failure An ineffective executive sponsor. A weak or, even worse, nonexistent executive sponsor almost quarantees business project failure. Under weak executive leadership, all projects become IT projects rather than business initiatives with IT components. Since the 1980s. research has consistently found that effective executive sponsorship and ac-

tive user involvement are critical

A poor business case, An incomplete business case allows incorrect expectations to be set - and missed. Many business cases describe business benefits in far-too-broad terms. Goals and benefits must be measurable quantifiable and achievable. (See "Busi ness Cases What Why and How" Computerworld.

to project success

June 13, 2005.) The business case is no longer valid. Marketplace changes frequently invalidate original business assumptions, but teams

often become so invested in a project that they ignore warning signs and continue as planned. When the market changes, revisit the business case and recalculate benefits to determine whether the project should continue. The project is too big. Bigger projects require more discipline. It's dange

ous for an organization to undertake a project five or six times larger than any other it has successfully delivered. A lack of dedicated renources, Large projects require concentration and dedication for the duration. But key people are frequently required to support critical projects while continuing to perform their existing full-time jobs When Blue Cross attempted to build a new claims system in the 1980s, nearly 20% of its critical IT staffers were simultaneously assigned to other projects. The claims initiative failed, Proect managers who don't have control

over the resources necessary for their

projects are usually doomed.

Out of sight, out of mind. If your suppliers fail, you fail, and you own it. Doo't

take your eyes off them Unnecessary complexity. Projects that attempt to be all things to all people morally rough in systems that are difficult to use, and they eventually fail

Cultural conflict. Projects that violate cultural norms of the organization seldom have a chance. The FBI's Virtual Case File was designed to share information in a culture that values secrecy and rarely shares information across teams. Moreover, FBI culture views IT as a support function and a "necessary evil" rather than an integral part of the crime-solving process. The project violated multiple cultural norms and met with significant resistance. The Virtual Case File was finally killed after costing more than \$100 million

No contingency. Stuff happens. Projects need flexibility to address the inevitable surprises.

Too lone without deliverables. Most overnizations expect visible progress in six to nine months. Long projects without intermediate products risk losing ex-

ecutive interest, support and resources. Betting on a new, unproven technology. Enough said

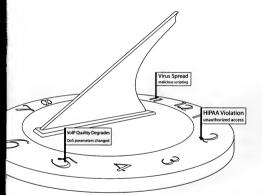
An arbitrary release date. Date-driven projects have little chance of success. Will we ever learn to plan the project before picking the release date? See anything new here? That's exactly my point

Next time, increase your chances for success by avoiding these common project pitfalls. Use the above list (and other industry guidelines) to evaluate your project. If you see too many signs of danger, cut your losses and either restructure the project or kill it.

Talk to experienced project manage ers and read project management litcrature to review what works and what doesn't. Though, in fact, you already know.

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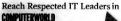
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Linds Corpose (1001820-81% Office manager	PO See 977, I Speece Street.
CONTRIBUTING FOITORS	Francischem, Mans. 01906
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CONTRIBUTION COLUMNISTS	Person (SSE) (SS-7) (-mail confloration (SSE) (SSE-7)
Michael Cortesbury, Paul Cler., John Kelende, Michael H. Honne.	100 to 10
Thorston A. May, Bart Parkins, Virginia Robbins, Broce A. Stewart	Centent 50xEle

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But in an e-mail poll of more than 50 corporate IT manageers, a majority of perpendents said than have no plans to use Ont - though they do have plans to use Microsoft's Office Descri YML the Asfault former in the new Office 2007 suite. When asked which former she favors, an IT director at a theory. ODF, but pragmatism will drive us to Office Oven

Staving the Course The desktop plans at The Procter & Gamble Co., one of the bellwethers among lange

IT buyers, illustrate why ODF is struceling in the private secfor The Cincinnati-based consumer goods giant employs 140,000 people, and, because of its size, finds it difficult to make dramatic changes, said Filippo Passerini, P&G's plobal

services officer and CIO This year, P&G will roll out the time-tested Office 2003 across the company, not the new Office 2007. Although Passerini said that he remains open-minded about the potential of ODE he noted that P&G will continue to use Office's

"If in two those five years there is a significant opportunity to do something different, we'll see when the time comes," Passerini said, "Bur

we don't have a strategy or firm plao in this area yet." P&G. like all companies will ultimately have to make a Accision about VMI decompose formurs, XML is the default format in Word Excel and PowerPoint for the first time in the ascently released version of Microsoft Office, Older Office



fighting a people standard vs. a technology standard The people standard is going to win.

versions can also be adapted to open and save files in Office 2007's YM1 format through free add-on software known as a Compatibility Pack But XML is only part of the equation. Corporate IT shops must choose between Micro-

Open XML, and ODE, the ISO standard snawned by Marnasoft rivals Sun Microsystems In: and IRM

Microsoft is work incho march ODE's ISO status, recgenizing that such approval can corre considerable weatht with sovernment and corpo rate users. The software maker took the unprecedented step of submitting Other Open XMI to the ECMA International standards back and is now oursuing ISO standardization

as well We'll probably pick one as the default to use the most." said Keith Glennan, chief technology officer at Northrop Grumman Core "But Loss. pect we will not be able to completely eliminate one

format or the other unless the marketelace does that for us." For Northrop Grumman actiling on one standard may be tough, because its main customer base is in the now ernment sector, where some interest in ODF is percolating

1BM, Sun and other ODF proponents have focused

soft's flavor, known as Office Surprise: XML-based Document

Formats Can Be Smaller bility and portability of documents as the main advantages they expect to see by switching to XML based

tio became by decision englactions But Danske Bank A/S is honing for more. The Consolution hazard bank estimates that it will save \$500,000 annually on the cost of storing documents in its storagearea network, thanks to the cornpression technology in Microsoft's

Office Open XML format CIO Peter Schleett rand book officials learned of the prospective storage savings during a visit to Microsoft's headquarters Initial plot testing, he added, has supgested that the saveres extravees

can be makeed The prospect of smaller files ours counter to the expecta-

IT MANAGERS often city compat: ; hons of some IT managers, who in a Computerworld poll cited "like bicef" and "larger files" as disadventages of moving to XML-based

"They can be compressed since they're text, so part of the Open XVII. specification, for example, netwies standards based Zin compression technology," said Microsoff's Alan Vates, a negocial

manager of business strategy for Office. "OOF his a similar thing that they've made available " Microsoft's Gray Knowlton, an Office group product manager. said early lindings show that Word and Excel files are between 40% and 70% smaller and even mane-

heavy PowerPoint files see a 25% - CAROL SLIWA

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in some cases for at least 100 wors, and that increasingly frown on proprietary file formats that require specific applications to open them

Government Plans Seven notional inversaments four revised executions

and more than 50 powernment paracies have signaled their intentions to adopt ODE, according to Marino Marcich managing director of the yearuld ODE Alliance "I don't think there's the

level of awareness concerning ODF on the corporate side. We're hoping to change that," he said. "It wasn't too lone ago that WordPerfect was one was producting it would be supplanted. But even if ODF catches

on in the government sector. that doesn't mean alternatives to the Missoroft Office suite will. The government bodies that Manaich cited or "forthour alone" in implementing their ODF plans - Massachusetts and Belgium - have both turned to plue-in software that will allow Office users to open and save lifes in ODE.

299 attendees at the Premer 100 F in Conference March 6 2007

ing decision to sdopt ODE the must prominent office application suites to support the format were OpenOffice.org. Sun's StarOffice and IBM's Workplace. So ODF was often perceived to be tied to a product decision. Microsoft blasted the state's plan, but the emergence of ODF plug-ins for

Microsoft Office Corporations, however, may not want the hassie of ODF

plue-ins John Hinkle, CIO at Trans World Entertainment Corp. in Albany, N.Y., said that he has found non-Microsoft standards to be difficult to manage and support. "especially when plansing are required." Steve Ellis, an executive vice president and group

manager in the wholesale services group at Wells Fargo & Co., said be simply has a hard time envisioning his company deploying a plug-in or moving off its Microsoft Office

"Office is the standard for most companies," Ellis said. it's a people standard. It's hard fighting a people standard vs. a technology standard. The people standard is going to win." >



Office Format

suite so they can open documents from their external business partners. Standard XML if widely adopted, would after the situation that has lad to wandor look-in

But in an e-mail poll of more than 50 corporate IT manage ers, a majority of respondents said they have no plans to use ODF - though they do have plans to use Microsoft's Office

Open XML, the default format in the new Office 2007 suite. When asked which format she favors, an IT director at a major automaker replied, "In theory. ODF, but pragmatism will drive us to Office Open VMI "

Staying the Course

The desktop plans at The Procter & Gamble Co., one of the beliwethers among large IT buyers, illustrate why ODF is struggling in the private sector. The Cincinnati-based consamer enods giant employs 140,000 people, and, because of its size finds it difficult to make dramatic changes, said Filippo Passerini, P&G's global

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Open VMI and ODE the ISO standard snawned by Microsoft rivals Sun Microsystems

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Surprise: XML-based Document Formats Can Be Smaller

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Office Open XML format. CIO Pater Schleidt said bank officials learned of the prospective storage savings during a visit to Memorif's bendrapriers, initial pilot testing, he added, has suc-

gested that the savings entirepter can be realized. The prospect of smaller Nes runs counter to the expecta-

that they've made available." Microsoft's Gray Knowton, an Office group product mensors said early findings show that Word and Excel files are between 40% and 70% smaller, and even imageheavy PowerPoint Nes see a 25% size reduction.

match ODF's ISO status, recpursuing ISO standardization as well.

technology officer at Northron

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on courting cash-strugged government bodies that must preserve public documents in some cases for at least 100 years, and that increasingly

frown on proprietary file formats that require specific applications to open them. **Government Plans**

Seven national governments. four regional governments and more than 50 government acencies have signaled their intentions to adopt ODF, according to Marino Marcich

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Numbers Game

"OW that we've survived DST2k7, what's the next big threat we'll have to face? Answer: This is the year we run out of storage. At least that's according to the wonderfully goofy numbers in a new white paper from IDC. In "The Expanding Digital Universe," IDC says that in 2007, the amount of digital information "created and replicated" will be 255 exabytes, while the amount of storage capacity available will only be 246 exabytes — not enough to hold that much data.

Aren't those numbers amazing? And I have no doubt that, since they come from IDC (full disclosure: It's a corporate sibling of Computerworld), those numbers are as accurate as possible.

They're also about as meaningless as they could possibly be.

And, naturally, they got his play last work from | whole point of the exercise was to consince the newspapers and The Associated Press news service, which quoted IDC's description of all that data as the caujvalent of 12 stacks of books reaching from the earth to the sun

That would be a reasonable comparison — if all those videos, MP3s and digital photos were printed out, one byte per character, as books But of course they never would be. It's a hunely

impressive but atterly meaningless comparison And the meaninglessness doesn't stop there. How did IDC come up with that 255 evaluate number? (That's 255 thousand million eigabytes.) First the IDC analysts collected all their market data for every kind of device that generates

or uses digital data - everything from PCs and digital cameras to digital TVs and VotP phones. Then they calculated how much data each kind of device generates or uses each year, as accu-

rately as they could Then they assumed nothing was ever deleted. And finally they multiplied by four. Yeah, realb. After all, who could resist making three extra

copies of everything? In practice, of course, lots of that digital data isn't stored even once. Digital TVs and radios won't store the broadcasts they receive. PCs don't pile up copies uf YouTube vidcos or Skype calls. IDC's white paper admits that. Without IDC's goofy assumptions, the total amount of data is a small fraction of 255 exabytes.

But that's the way - the only way - IDC could conclude that digital data will outstrip storage this year. Yes, it's silly. It's meaningless. And it's tempting to laugh this off. After all, 1DC's white paper was commissioned by storage vendor EMC. The world that it's going to need more storage. Trouble is, those silly, meaningless numbers and examples are likely to come back to bite corporate IT people. Sure we know those numbers are goody We-

know we're not about to run out of storage. Even if we're not right on top of our current storage utilization, we can be pretty sure there's plenty of storage to be had from EMC, IBM, HP and other vendors at the drop of a purchase order. And we can easily figure out wby these goofball numbers have been einned up.

Now consider your CEO. Let's assume he's not the kind who gets his IT information from airline in-flight magazines. Let's assume he is the sort who reads the daily newspaper. And there he reads that, according to tech re-

searcher IDC, total worldwide data is about to outstrip total worldwide storage. He asks you. You tell him it's not true. He he-

liever you But what are the chances that he'll believe the next round of numbers from IDC? The numbers that indicate e-mail archiving storare requirements are climbing for

example, or instant messages, or VotP phone calls? He'll consider the source. He won't believe it. And we'll have to work that much harder to convince him that yes, we really will need that

storage, and we'll need to acquire it. well before the crunch comes. Thanks for making our lives easier, IDC.

Maybe neither daylight-saving time nor running out of storage will be this year's big threat after all. Just analysts.

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